APPENDIX E

GEOTECHNICAL APPENDIX

BROWARD COUNTY SHORE PROTECTION PROJECT APPENDIX E GEOTECHNICAL REPORT

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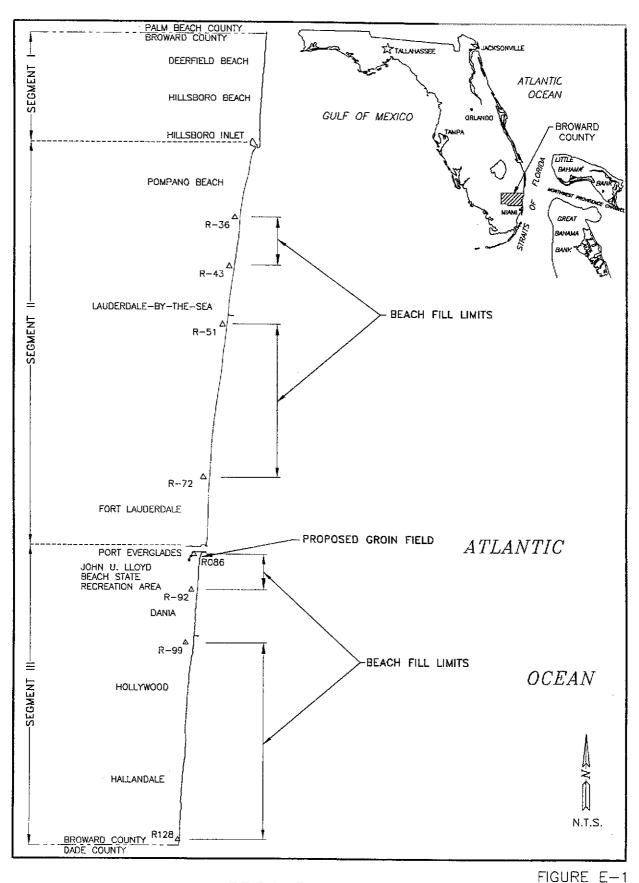
BROWARD COUNTY SHORE PROTECTION PROJECT APPENDIX E GEOTECHNICAL REPORT

INTRODUCTION

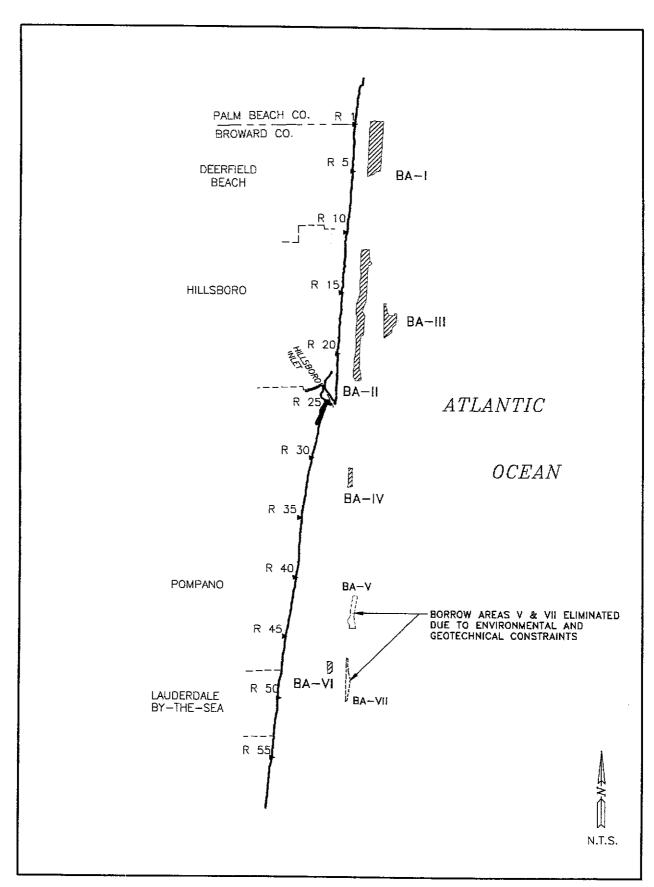
- E-1. Segments II and III of the Broward County beach nourishment project will require approximately 2.4 million cubic yards of fill (Figure E-1). The quantity of fill is to be dredged from five offshore borrow areas located within Broward County (Figure E-2). The borrow areas are located between 0.25 miles to 1.0 miles offshore of the Broward County coastline and extend from the Broward-Palm Beach County line to Lauderdale-by-the-Sea. In 1996, the seven borrow areas were surveyed and the data analyzed in order to determine the quality and quantity of sediment available for future beach nourishment projects (CPE, 1997). In 1998 approximately 555,000 cubic yards of material was dredged from Borrow Area I and placed on Hillsboro Beach.
- E-2. In June and July 1999 Broward County visually inspected the hardbottom locations to ground truth the 1997 side scan sonar survey. Additional environmental investigations were conducted in 2001 by CPE/Olsen Associates (J-V) and Nova University of the proposed borrow areas and the adjacent hardbottoms. Two of the previously defined borrow areas BA-V and BA-VII were eliminated due to environmental and geotechnical concerns. The boundaries of the remaining five borrow areas were redefined to avoid small hardbottom and rubble areas as well as scattered seagrasses within the proposed borrow areas and within the adjacent buffers. The revised buffer ranges from 200 to 400 feet from the hard bottom communities as defined by the extensive environmental assessment of the adjacent communities.
- E-3. Environmentally refining the remaining borrow areas reduced the total volume such that the required 50% additional fill material was not available. To increase the volume, additional cores were approved by Broward County to investigate deeper sediment within the borrow areas that was mapped by the 1996 seismic survey, and indicated by the jet probes. A larger vibracore was contracted in 2001(Alpine, 2001) than was utilized in 1996. The heavier Alpine rig was able achieve deeper penetration into and through the scattered rubble layers located within the unconsolidated sediments. Based on the sediment findings of the 2001 vibracores, the borrow area cut depths were increased.
- E-4. The total available volume within the five borrow areas is 4.9 million cubic yards. The mean grain size ranges between 0.43 mm and 0.31 mm.

1997 AND 2001 STUDY PURPOSE AND SCOPE

E-5. In 1996 a geotechnical study of the seven borrow areas was conducted for the Broward County Department of Natural Resource Protection (CPE, 1997). The 1997 geotechnical study was conducted in four phases. In the first phase, a thorough literature search was conducted that reviewed available sources of geotechnical or physical information for Broward County. The second phase involved field investigations which included taking jet probes to ground truth seismic information and vibracoring potential borrow areas, based upon previous studies. Phase three involved the analysis of the acquired data and phase four was the delineation of the borrow



BROWARD COUNTY
LOCATION MAP
AND
SEGMENTS II AND III BEACH FILL LIMITS



BROWARD COUNTY BORROW AREAS

FIGURE E-2

areas available for beach nourishment. The results of the 1997 study defined the best quality sediment source available for future nourishment projects.

E-6. In 2001additional vibracores cores were obtained to investigate the deeper sediment within the borrow areas as mapped by the 1996 seismic survey and indicated by the previous jet probes. A Rossfelder P-3 electric powered vibracore with a 20 foot long barrel was used in 1996. The Rossfelder vibracore was frequently impeded from penetrating to the total depth of the unconsolidated material by the rubble within the sediment deposit. Even when the rig was jetted to the depth of the rubble layer it typically was unable to achieve full penetration due to its light weight. An Alpine model 271 B pneumatic configured to obtain cores 20 feet in length was utilized in 2001. The heavier Alpine rig was able to achieve deeper penetration into and through the scattered rubble layers seen in the seismic records and encountered by the 1996 cores. The results of the 1997 study and 2001 vibracores will be summarized in this appendix.

GEOGRAPHIC AND GEOLOGICAL SETTING

- E-7. Broward County is located on the southeast coast of Florida (Figure E-1). Segment II of the beach nourishment project is located between Hillsboro Inlet and Port Everglades. Segment III of the beach nourishment project is located between John U. Lloyd Park and the South County line. The five borrow areas are located offshore of the Broward County coastline as identified in Figure E-2.
- E-8. The continental shelf along the southeast coast of Florida varies in width from a few miles to slightly greater than one mile (Raymond, 1972). The shelf is narrowest between Palm Beach and Miami and consists of three step-like terraces (Raymond, 1972). These terraces coincide with the first, second and third reef flats outlined by Duane and Meisberger (1969). Relict barrier reefs form intermittent ridges at the seaward edges of each terrace (Raymond, 1972). The reefs trend parallel to the approximately north-south oriented shoreline.
- E-9. South of approximately 26°20'N, the shelf surface rises from the outermost reef system to the shore in a series of step-like linear flats separated by rocky irregular slopes and ridges marking the former position of paleoshoreline (Finkl, 1994). North of 26°20'N, the step-like character of the topography gives way to a more or less constant sediment slope extending from shore to near the outer reef line. Intrareefal flats are covered with calcareous sands, limestone gravels, and intercolated clays and silt. The inner shore zone is characterized by sandy beaches, large tracts of unconsolidated sediments and hard grounds including Sabellariid worm reefs (Finkl, 1994).

GEOTECHNICAL INVESTIGATIONS

Previous Investigations

E-10. There are a number of offshore geotechnical studies and marine surveys that have been conducted in Broward County. The studies are chronologically summarized in CPE (1997).

1997 GEOTECHNICAL STUDY OF OFFSHORE SAND DEPOSITS

E-11. The offshore geotechnical surveys consisted of seismic, side scan, bathymetric surveys, probes, and vibracoring. The limits of the study area are between the Broward-Palm Beach County line to

Lauderdale-by-the-Sea and between the -10 foot NGVD contour and about 1.5 miles offshore. The results of the 1997 offshore geotechnical investigation are described below.

1997 Borrow Area Sediment Characteristics

E-12. The seven (7) borrow areas identified in 1997 lie from 0.25 to 1.0 mile offshore in water depths of 25.5 feet to 74 feet NGVD. Four (4) borrow areas are identified in the 2nd intrareefal flat and three (3) in the 3rd intrareefal flat. The combined borrow areas provide approximately 4.40 million cubic yards of sand as potential beach fill material (CPE, 1997). The light gray to dark gray medium grained sand sediments are a mixture of calcium (coquina shell fragments, reef fragments, skeletal fragments of marine organisms) and silica sands in the form of quartz. Mean grain size falls into the range 0.25 to 0.41 mm, sorting averages 0.80 to 1.38, and the overall silt content varies from 1.7 to 6.8%. Table E-1 presents a summary of the sediment characteristics determined for the seven borrow areas in the 1997 study.

TABLE E-1
1997 BORROW AREA SEDIMENT CHARACTERISTICS

Borrow	Average	Volume of	Mean Grain	Mean Grain	Mean	Mean
Area	Depth of	Sand (cy) (1)	Size (mm)	Size (phi)	Sorting (phi)	Silt/Clay
	Cut (ft.) (1)					(%)
I	6.0	988,426	0.36	1.49	0.92	1.7
II	6.1	1,422,197	0.30	1.73	0.79	1.7
III	7.2	716,683	0.41	1.28	1.38	4.6
IV	6.0	295,342	0.32	1.65	0.97	2.4
V	7.6	344,057	0.25	1.98	1.14	6.8
VI	7.6	300,280	0.41	1.28	0.90	2.6
VII	7.0	361,480	0.42	1.24	1.30	3.3
TOTA	L (cy)	4,425,465				

Note: ⁽¹⁾ Based on 1997 borrow area limits and preliminary design dredge cuts. Borrow area limits and dredge cuts have been revised in this GRR (see Table E-2).

Bathymetric Survey

E-13. The 1997 bathymetric survey was conducted to determine the offshore contour configuration and identify offshore sand resources. The survey occurred between the seaward edge of the first reef and the shoreward edge of the third reef, inclusive of the two intrareefal intervening flats (CPE, 1997). The shallowest depth of the survey area was 10 feet and the deepest was 72 feet NGVD (CPE, 1997). In February 1998 Borrow Area I was resurveyed following the removal of approximately 555,000 cubic yards of sand that was placed on Hillsboro Beach. Plates E-1 through E-5 show the results of the 1997 bathymetric survey of Borrow Areas II, III, IV, and VI and the February 1998 post construction survey of Borrow Area I.

Isopach - Sediment Thickness

- E-14. Isopach maps were developed by comparing the record results of the 1996 seismic survey with the 1996 and 2001 vibracore and jet probe data. A side scan sonar survey was conducted in order to identify the offshore hardbottom features. Comparing the seismic survey and side scan sonar survey verified the location of hardbottom areas and potential borrow areas. Comparing the vibracore and jet probe data with the seismic survey records provided the information used to determine the thickness of the unconsolidated sediment. The 1997 isopach maps (Plates E-6 through E-10) have been updated to reflect the results of the 2001 cores.
- E-15. In June and July 1999, Broward County divers conducted a visual inspection of the hardbottom communities located within the vicinity of the borrow areas. The survey was conducted to ground truth the April 1996 side scan sonar survey.
- E-16. Additional environmental investigations of the proposed borrow areas and the adjacent hardbottoms were conducted in 2001 by CPE/Olsen Associates (J-V) and Nova University. These investigations developed comprehensive physical maps of the nearshore and offshore hardbottom areas in Broward County, which were used to verify and refine reef line delineation of hardbottom habitat edges. Two of the previous defined borrow areas BA-V and BA-VII were eliminated due to environmental concerns. The boundaries of the remaining five borrow areas were redefined to avoid small hardbottom and rubble areas as well as scattered seagrasses within the proposed borrow areas and within the adjacent buffers. The revised buffer ranges from 200 to 400 feet from the hard bottom communities as defined by the extensive environmental assessment of the adjacent communities.

Jet Probe and Vibracore Locations

- E-17. Jet probes were used to confirm the thickness of the sediment horizons determined from evaluation of seismic records. The probes allowed for the confirmation of the depth of such features as bedrock and shell hash or rubble layers. The probes also provided a rough visual estimate of the silt/clay portion of the sediments, based on the extent of turbidity created from the probing activity. In all, 70 jet probes were conducted. The jet probe logs are presented in Sub-Appendix E-1 for each borrow area.
- E-18. A total of 72 vibracores were conducted during the 1996 offshore geotechnical study and twenty-six (26) in 2001. Vibracoring was carried out in water depths ranging from 28.0 feet to 74.0 feet NGVD. Vibracore logs for each borrow area are presented in Sub-Appendix E-2.
- E-19. The cores were split longitudinally into two approximately equal halves. One half was photographed and retained for archival purposes. After completion of logging of the macroscopic characteristics, samples were taken from the other half for grain size analyses.

Sediment Analysis

E-20. Mechanical sieve analyses of sediment samples were carried out in accordance with the American Society for Testing and Materials (ASTM), Standard Materials Designation D422-63 for particle size analysis of soils (ASTM, 1987). This method covers the quantitative determination of the

distribution of sand size particles. The procedure used for analysis of the sediment samples is outlined in the 1997 geotechnical study. The results were entered into a gradation analysis computer program which calculates the mean, median, sorting and silt/clay percentages for each sediment sample. The sediment characteristics were computed using the moment method of analysis which utilizes the entire sample results to compute the mean and sorting.

- E-21. <u>Sample Statistics</u>. One hundred ninety (190) sediment samples were obtained from the 72 vibracores collected in 1996. One hundred eleven (111) samples were analyzed from the 26 vibracores taken in 2001. The moment method was used to determine the mean grain size, sorting, and percent silt/clay for each vibracore sample. Grain size distribution curves were plotted based on the sieve results of each sample. Sub-Appendix E-3 presents the gradation analysis reports and Sub-Appendix E-4 presents the grain size distribution curves.
- E-22. <u>Composite Grain Size</u>. The composite sediment characteristics for each core and subsequently each borrow area was determined from using a weighted average method analysis (Sub-Appendix E-5). The weighted averaging method allows for each individual sample to represent the total layer from which it was obtained. Samples for size analyses were taken from each of the layers within the cores. The average mean grain size, percent silt, and sorting for each borrow area was computed by averaging the weighted results for all cores within each borrow area to the depth of cut. Table E-1 summarizes the composite sediment characteristics for the five borrow areas.
- E-23. <u>Sediment Composition</u>. Eight sediment samples were obtained from the 72 vibracores and were tested to analyze the calcium carbonate content of the sediment. One representative vibracore from each borrow area was selected with the exception of Borrow Area II, where two representative vibracores were selected. The 1997 geotechnical study concluded that the medium to coarse grained sand was found to be more calcareous in composition than arenitic (siliceous). The silica content of the sediment generally decreases to the south (50.3% to 25.6%) as calcium carbonate content increases (48.1% to 72.0%) (CPE, 1997). One representative vibracore from the 2001 cores within each borrow area was also sampled and tested to determine the calcium carbonate content of the proposed fill material. The 2001 vibracores composition was found to be similar to the previous analysis showing an increase in calcareous content and a decrease in silica from north to south. The offshore most borrow area within the 3rd intrareefal flat exhibited the highest calcareous composition (92.2% carbonate content). Similar trends were observed for the existing beaches. Samples collected from the Segment II and III berms were found to contain 55% and 84% calcium carbonate, respectively. Since beaches in both Segments have been nourished, calcium carbonate contents are directly related to the calcium carbonate contents of the previous borrow areas.

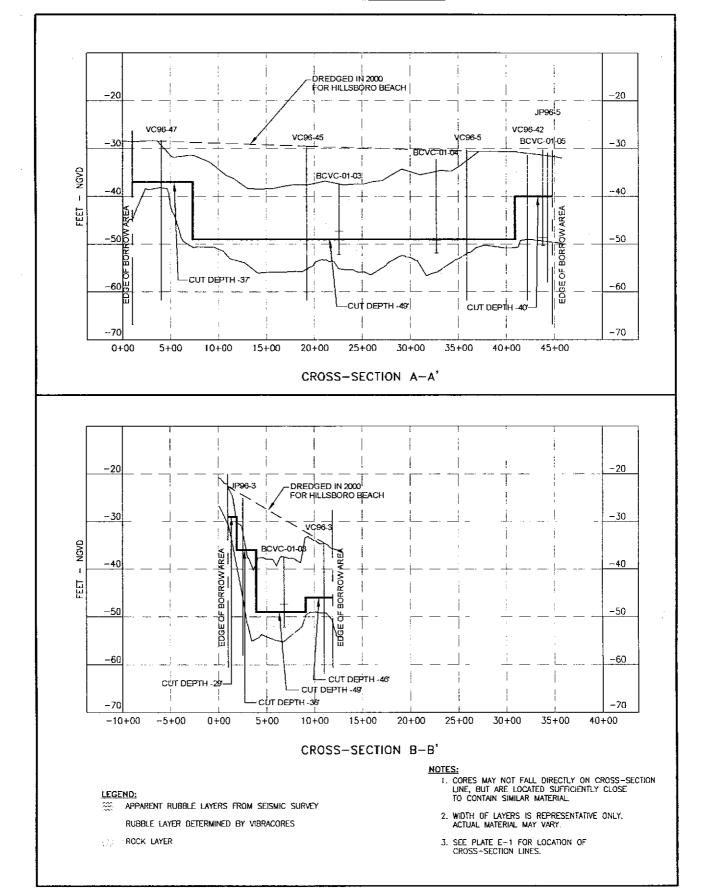
TABLE E-2
BROWARD COUNTY BORROW AREAS SEDIMENT COMPOSITION

BORROW AREA	SAMPLE NUMBER	ESTIMATED QUARTZ CONTENT (%)	ESTIMATED CALCIUM CARBONATE CONTENT (%)
	BV96-44#1	51.9	48.1
BA-I	BC96-44#2	45.5	54.5
	BCVC-01-02#3	30.9	69.1
	BC96-29#1	40.1	59.9
DA II	BC96-29#2	42.8	57.2
BA-II	BC96-39#2	45.6	54.4
	BCVC-01-10#2	30.7	69.3
	BC96-50#1	6.5	93.5
BA-III	BC96-50#2	14.4	85.6
	BCVC-01-14#2	7.8	92.2
	BC96-54#2	28.6	71.4
BA-IV	BC96-54#3	43.9	56.1
	BCVC-01-17#1	30.4	69.6
DA W	BC96-71#2	26.4	73.6
BA-V	BCVC-01-20#2	6.5	93.5
	BC96-24#1	27.6	72.4
BA-VI	BC96-24#2	28.0	72.0
	BCVC-01-21#1	27.6	72.4
	BC96-25#1	25.6	74.4
BA-VII	BC96-25#3	27.5	72.5
	BCVC-01-23A#2	7.7	92.3

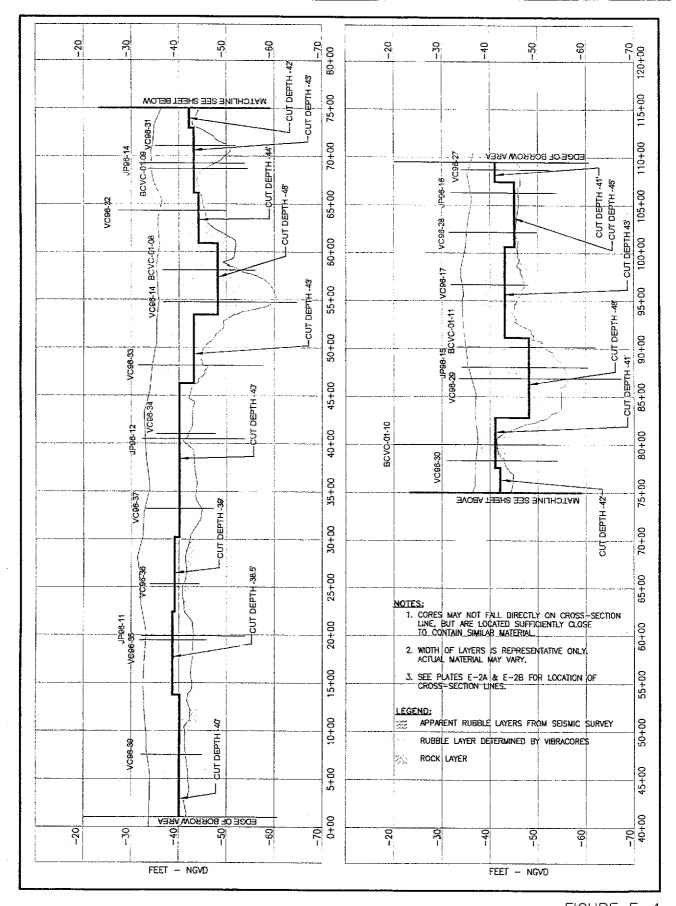
DELINEATION OF BORROW AREAS

E-24. Based on the geotechnical investigations and environmental assessments conducted in 2001, five (5) potential borrow areas were identified. Four borrow areas were identified in the 2nd intrareefal flat and one in the 3rd intrareefal flat. Borrow Areas I, II and III are located north of Hillsboro Inlet, whereas the remaining two lie to the south. A 200 to 400-foot buffer zone is used to protect adjacent hardbottom communities (Plates E-1 to E-10). Figures E-3 to E-8 show typical cross-sections of sand thickness within the five borrow areas. The location of the cross-sections are shown on Plates E-1 to E-5 of the bathymetric survey and Plates E-6 to E-10 of the isopach maps. Cores shown on the cross-sections do not all fall directly on the line but have been assumed to contain material that is similar to what is present along the cross-section.

E-25. Table E-3 shows the total area and estimated quantity of sand of each borrow site based on the increased buffer zone and revised borrow area limits. The selected borrow areas range in size from 140.1 acres (Borrow Area II) to 8.6 acres (Borrow Area VI). The amount of sand available

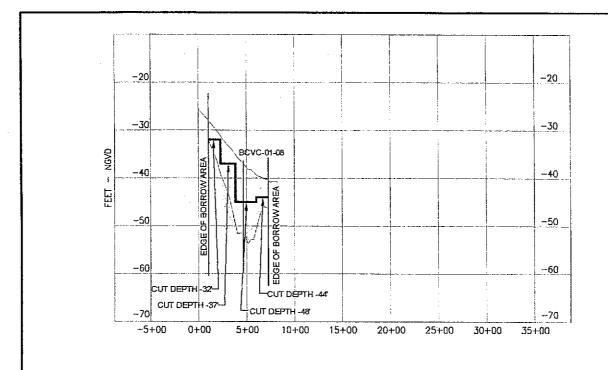


BROWARD COUNTY FLORIDA OFFSHORE BORROW AREA I GEOLOGIC CROSS SECTION A-A' & B-B' FIGURE E-3



BROWARD COUNTY FLORIDA
OFFSHORE BORROW AREA II
GEOLOGIC CROSS SECTION C-C'

FIGURE E-4



CROSS-SECTION D-D'

LEGEND:

- APPARENT RUBBLE LAYERS FROM SEISMIC SURVEY
- RUBBLE LAYER DETERMINED BY VIBRACORES
- ्रा ROCK LAYER

NOTES:

- CORES MAY NOT FALL DIRECTLY ON CROSS-SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO CONTAIN SIMILAR MATERIAL.
- 2. WIDTH OF LAYERS IS REPRESENTATIVE ONLY. ACTUAL MATERIAL MAY VARY.
- 3. SEE PLATES E-2A & E-2B FOR LOCATION OF CROSS-SECTION LINES.

FIGURE E-5

BROWARD COUNTY FLORIDA OFFSHORE BORROW AREA II GEOLOGIC CROSS SECTION D-D'

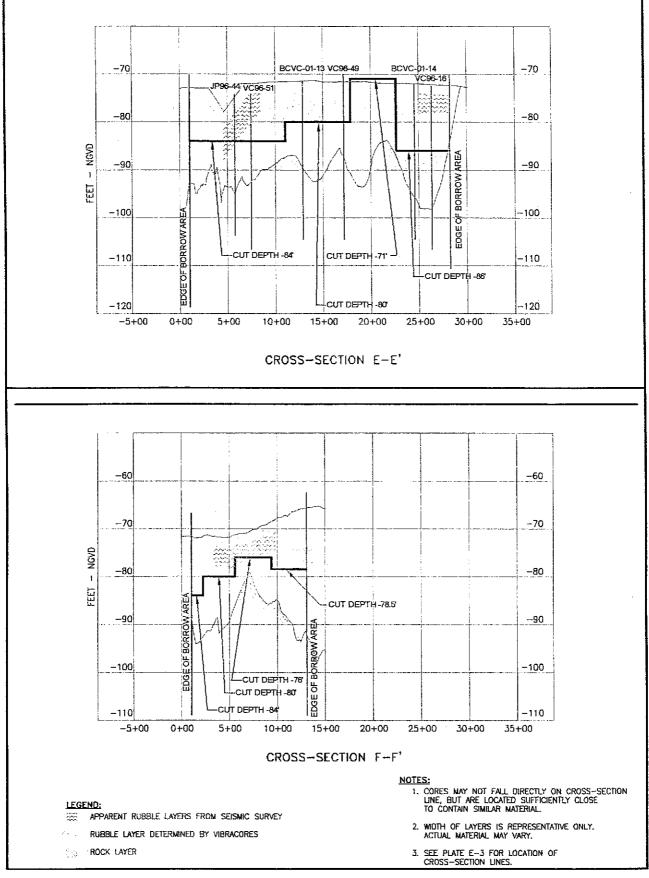
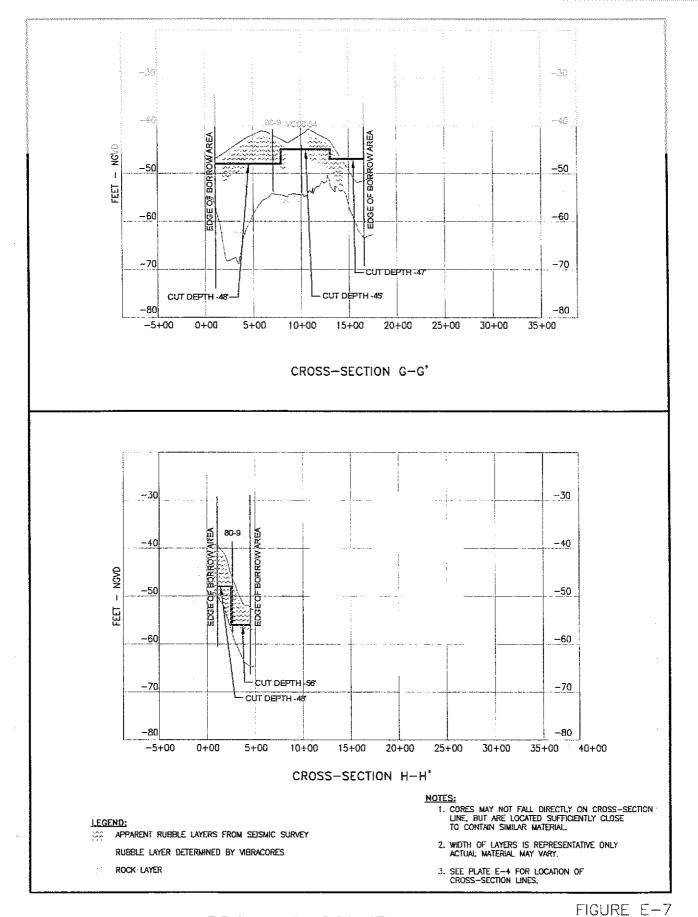


FIGURE E-6

BROWARD COUNTY FLORIDA
OFFSHORE BORROW AREA III
GEOLOGIC CROSS SECTIONS E-E' & F-F'



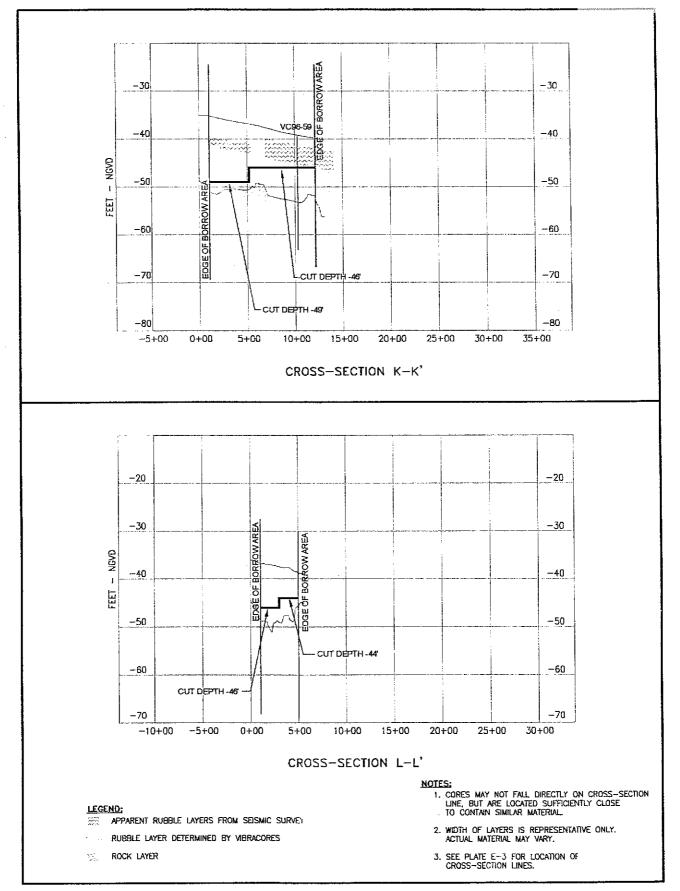


FIGURE E-8

BROWARD COUNTY FLORIDA
OFFSHORE BORROW AREA VI
GEOLOGIC CROSS SECTIONS K-K' & L-L'

from these borrow sites ranges from 2,482,000 cubic yards (Borrow Area II) to 84,000 cubic yards (Borrow Area IV). The total volume identified within the five borrow areas is approximately 4.9 million cubic yards of sand. The mean grain size, as determined from size analysis, ranges from 0.43 mm (Borrow Area III) to 0.31 mm (Borrow Areas II and III). The composite silt content ranges from 4.38 percent in Borrow Area III to 1.86 percent in Borrow Area II (Table E-3).

E-26. The 1997 geotechnical investigation identified the presence of layers of coral rubble and fragments in the sand recommended for use in each borrow area. Due to the variability of the depth of the rock rubble layers throughout the sediments, the recommended borrow area dredge depths vary. The allowable dredge depths are shown on Figures E-3 to E-8. The dredge cuts contain varying levels of discontinuous rock rubble which will reduce the volume of available sand. Table E-3 shows the volume of available sand by reducing the dredge volumes by the estimated rock percentage and the percentage of silt/clay (Table E-3). The total sand volume is 4,489,000 c.y.

TABLE E-3

REVISED AVAILABLE BORROW AREA VOLUMES AND SEDIMENT DATA INCORPORATING THE 2001 CORES WITH THE 1996 DATA

B.A. NO.	TOTAL BORROW AREA VOLS.	Borrow Area Surface Area (Acres)	Rubble and Coral fragments greater than 3/4 inches	Mean Silt/Clay	Mean Grain Size (mm)	CLEAN SAND VOLUME (1)
I	1,724,000	108.0	9.5	2.0	0.39	1,529,000
II	2,482,000	140.1	9.3 6.0	2.0 1.9	0.39	2,288,000
	· ·					
III	560,000	38.1	7.5	4.4	0.43	495,000
IV	84,600	10.5	4.5	2.6	0.31	78,000
V		Borrow area	eliminated due	to environ	mental concern	S
VI	106,000	8.6	4.5	2.1	0.42	99,000
VII	,				mental concern	·
TOTAL	4,956,000					4,489,000

Note: (1) Clean Sand Volumes reflect remaining sand after silt and rock have been removed.

NATIVE BEACH SEDIMENT SAMPLING AND ANALYSIS

- E-27. In May 1999, a sediment sampling program was carried out along the Segment II and Segment III shorelines of Broward County. Samples were obtained from the dune and mid-berm at every third FDEP monument in southern Pompano Beach and northern Ft. Lauderdale (from R-33 to R-75) and in John U. Lloyd Beach State Recreation Area, Dania, Hollywood, and Hallandale (from R-87 to R-126). Also, sediment samples were taken along the profile from the dune to the –16 ft NGVD contour at every sixth FDEP monument in the southern Pompano Beach and northern Ft. Lauderdale (from R-36 to R-74) and in John U. Lloyd Beach State Recreation Area, Dania, Hollywood, and Hallandale (from R-87 to R-126).
- E-28. The sediment sampling scheme used to collect the samples across the beach profile was based upon the guidelines outlined by CERC (1991). The samples were generally collected at the toe of the dune, mid berm, MHW, MTL, MLW, -4ft NGVD, -8ft NGVD, -12ft NGVD, and -16ft NGVD. Grain size distributions of the existing beach sediments were determined using standard sieving techniques. The mean grain size, sorting, and silt content along each profile line are shown in Table E-4 for Segment II and Table E-5 for Segment III.
- E-29. Due to wave action and shell content, the swash zone contains unusually large sediment size characteristics that do not appear to contribute to the berm or submerged profile shapes. The anomalous sand sizes range from 0.7 mm to 1.2 mm and were removed from the analysis. A weighted average of the samples taken along the profile lines was calculated between the dune and –13.5 ft NGVD (the average depth of closure for Segment II) and the dune and –12.5 ft NGVD (the average depth of closure for Segment III). The results are presented in Tables E-5 and E-6. The native beach composite sediment characteristics, based on the weighted averages, are shown at the bottom of Tables E-6 and E-7 for each Segment.
- E-30. The mean grain size of the native beach in southern Pompano Beach and Lauderdale-by-the-Sea are 0.27 mm and 0.29 mm, respectively. The sorting values for these areas are 0.69 phi and 0.70 phi, respectively. The silt contents are 1.54% and 0.82%, respectively. The mean grain size, sorting, and silt content values for Ft. Lauderdale are 0.33 mm, 0.83 phi, and 1.65%, respectively.
- E-31. The mean grain size of the native beach along the John U. Lloyd Beach State Recreation Area and Hollywood/Hallandale (Segment III) are 0.33 mm and 0.37 mm, respectively. The sorting value for these areas is 0.72. The silt contents are 1.15% and 1.07%, respectively.

Beach Compatibility

E-32. The compatibility of the borrow area with Segments II and III native beach sand is discussed in Appendices A and B, respectively.

Table E-4
Segment II Native Beach Sand
Composite Grain Size Characteristics

													•	
		n O	Oune			Mid	Mid Berm		MHW	MHW (1.9 ft NGVD)	(D)	TM	MTL (0 ft NGVD)	Ω Ω
Profile													•	
	Elevation (ft)	Mean (mm)	Sorting	% Silt	Elevation (#)	Mean (mm)	Sorting	% Silt	Mean (mm)	Sorting	% Silt	Mean (mm)	Sorting	% Silt
R33	10.6	0.32	0.52	0.10	7.4	0.42	0.76	0.40	(111111)			(11111)		
R36	10.0	0.27	0.42	0.10	8.0	0.35	0.94	3.15	0.28	0.51	0.20	0.29	0.39	0.30
R39	7.5	0.92	1.69	1.10	4.9	0.34	0.69	0.23						
R42	10.5	0.27	0.64	0.66	5.0	0.30	0.53	0.20	0.26	0.87	0.50	0.47	1.20	0.11
R45	9.5	0.35	0.83	0.37	0.0	0,58	96.0	0.40						
R48	12.0	0.31	0.45	0.10	8.0	0.36	0.61	0.20	0.35	0.55	0.20	0.72	0.73	0.40
R51	10.0	0.30	0.54	0.28	7.6	0.34	0.69	0.70						
R54	10.0	0.36	0.52	0.20	5.0	0.37	0.71	0.31	0.29	0.49	06.0	0.93	1.14	0.20
R57	12.5	0.37	0.90	00.0	7.5	0.30	0.47	0.60			-			
R60	7.0	0.29	0.48	1.40	5.0	0.32	0.58	0.40	0.26	0.54	09.0	0.36	0.89	0.50
R63	7.4	0.29	0.58	0.33	6.3	0.28	0.59	0.50					4	
R66	6.0	0.55	0.94	0.50	3.0	0.42	0.94	1.00	0.35	0.76	0.50	0.69	1.01	0.70
R69	6.9	0.42	0.77	0.10	6.2	0.38	0.59	0.10						
R72	7.5	0.39	0.59	0.30	4.5	0.29	0.57	0.10	0.65	0.98	0.70	0.47	0.89	0.50
R75	12.8	0.30	0.50	0.10	8.1	0.40	0.66	00.00						

Table E-4 (cont.)
Segment II Native Beach Sand
Composite Grain Size Characteristics

ć	MLV	MLW (-1.0 ft NGVD)	VD)		-4 ft NGVD			-8 ft NGVD		-	-12 ft NGVD		,	-16 ft NGVD	
Φ Ε Ε	Mean (mm)	Sorting	% sir	Mean (mm)	Sorting	% Silt	Mean (mm)	Sorting	% Sitt	Mean (mm)	Sorting	% Silt	Mean (mm)	Sorting	% Silt
R33															
R36	0.50	1.02	0.30	0.27	0.71	0.93	0.17	0.51	2.27	0.30	0.69	1.30	0.46	0.91	0.82
R39															
R42	0.49	1.01	0.70	0:30	1.01	0.70	0.13	0.52	4.06	0,35	0.78	0.97	0.41	0.86	1.34
R45									-			-			
R48	1.52	0.95	1.77	0.28	0.98	0.1	0.21	0.76	08,1	0.35	1.06	0.98	0.43	0.74	1.30
R51															
R54	1.14	1.67	0.40	0.72	1.38	0.50	0.14	0.60	3.11	0.27	0.69	.83	0.41	0.78	1.64
R57															-
R60	0.42	1.22	09.0	0.36	0.86	0.50	0,16	0.63	£.	0.27	0.70	2.67			
R63												•			
R66	0.73	1.04	06.0	0.74	1.05	0.70	0.15	0.59	1.55	0.22	0.72	2.25			
R69															
R72	0.94	1.54	0.70	0.82	1.15	0.70	0.17	0.60	1.63	0.25	1.10	6.83			
R75															

Table E-5 Segment III Native Beach Sand Composite Grain Size Characteristics

Profile		Dune		-	Mid Berm		MHW	MHW (1.9 ft NGVD)	3VD)	MTL	MTL (0 ft NGVD)	(QA	MLW	MLW (-1.0 ft NGVD)	3VD)
	Mean (mm)	Sorting	%Silt	Mean (mm)	Sorting	%Silt	Mean	Sorting	%Silt	Mean (mm)	Sorting	%Silt	Mean (mm)	Sorting	%Silt
R-87	0.47	1.60	2.70	0.25	0.55	0.30	0.27	0.36	0.60	0.93	1.25	0.90	0.47	0.93	0.90
R-90	0.33	96.0	0.20	0.33	0.59	0.20									
R-93	0.33	09.0	0.10	0.31	0.49	0.70	0.51	0.79	0.70	3.19	1.02	0.10	2.02	2.34	08.0
R-96	0.31	0.56	08.0	0.34	99'0	0.10									
R-99		0.63	0.10	0.37	0.67	0.20	1.19	0.88	0.70	2.01	06.0	08.0	2.36	1.56	06.0
R-102		0.84	0.40	0.44	99'0	00.0			,						
R-105		0.52	1.60	0.46	0.48	0.10	0.85	0.57	0.30	1.93	0.80	0.50	2.31	1.67	0.40
R-108	0.33	0.64	1.60	0.44	0.52	0.30									
R-111	0.48	0.73	0.10	0.47	0.58	0.00	0.79	0.56	1.00	1.33	0.88	0.10	1.35	0.89	0.40
R-114	0.65	0.97	0.00	0.44	0.82	0.40									
R-117	0.38	0.61	0.30	0.43	0.50	0.10	0.71	0.60	0.00	0.83	0.59	0.40	1.01	0.69	0.70
R-120	0.36	0.92	0.50	0.39	0.64	0.10									
R-123	99.0	0.82	0.10	0.40	0.95	0.00	09.0	0.92	0.00	2.57	1.47	0.10	0.89	0.86	0.10
R-126	0.25	0.59	4.40	0.36	0.83	0.10									

Table E-5 (cont.)
Segment III Native Beach Sand
Composite Grain Size Characteristics

		Trough			Bar		4	-4 ft NGVD		ဆု	-8 ft NGVD		7	-12 ft NGVD	۵	+	-16 ft NGVD	٥
	Mean	Mean Sorting %Silt	%Silt	Mean Sorting		%Silt	Mean	Sorting %Silt	%Silt	Mean	Mean Sorting %Silt	%Silt	Mean	Mean Sorting %Silt	%Silt	Mean	Mean Sorting %Silt	%Silt
Profile			-	(mm)			(mm)			(mm)			(mm)	:		(mm)		
R-87							0.13	0.54	3.70									
R-90																		
R-93							0.21	0.61	0.50	0.14	0.71	1.70	09.0	0.71	09.0	0.53	0.62	0.30
R-96																		
R-99							0.21	0.42	0.70	0.18	0.62	1.90						
R-102									•									
R-105	0.31	0.62	1.20	0.27	0.48	0.80	0.26	0.48	0.90	0.22	0.48	08.0	0.50	2.19	11.00			
R-108																		
R-111							0.17	0.48	0.70	0.14	0.53	0.70				99.0	0.57	06.0
R-114																		
R-117	0.69	0.82	08.0	0.70	2.07	09.0	0.92	0.89	0.20	0.14	0.72	1.40	0.13	0.63	1.90			
R-120									<u>-</u>									
R-123	1.10	2.36	0.40				0.42	1.21	0.00	2.80	0.82	1.20	0.12	0.61	3.30	0.15	96.0	3.50
R-126															-			

Table E-6 Segment II Native Beach Sand Composite Grain Size Characteristics

Profile			rofile, Dune to ude grain sizes
	Mean (mm)	Sorting	% Silt
R33			
R36	0.27	0.65	1.49
R39			
R42	0.27	0.73	1.60
R45			
R48	0.29	0.70	0.82
R51			
R54	0.29	0.76	2.63
R57			
R60	0.27	0.72	0.97
R63	0.44	0.05	4.50
R66 R69	0.41	0.95	1.59
R09 R72	0.37	0.88	1.43
R75	0.37	0.00	1.40
Reach 2a (R36-43)	0.27	0.69	1.54
Reach 2b (R44-53)	0.29	0.70	0.82
Reach 3 (R54-74)	0.33	0.83	1.65

Table E-7
Segment III Native Beach Sand
Composite Grain Size Characteristics

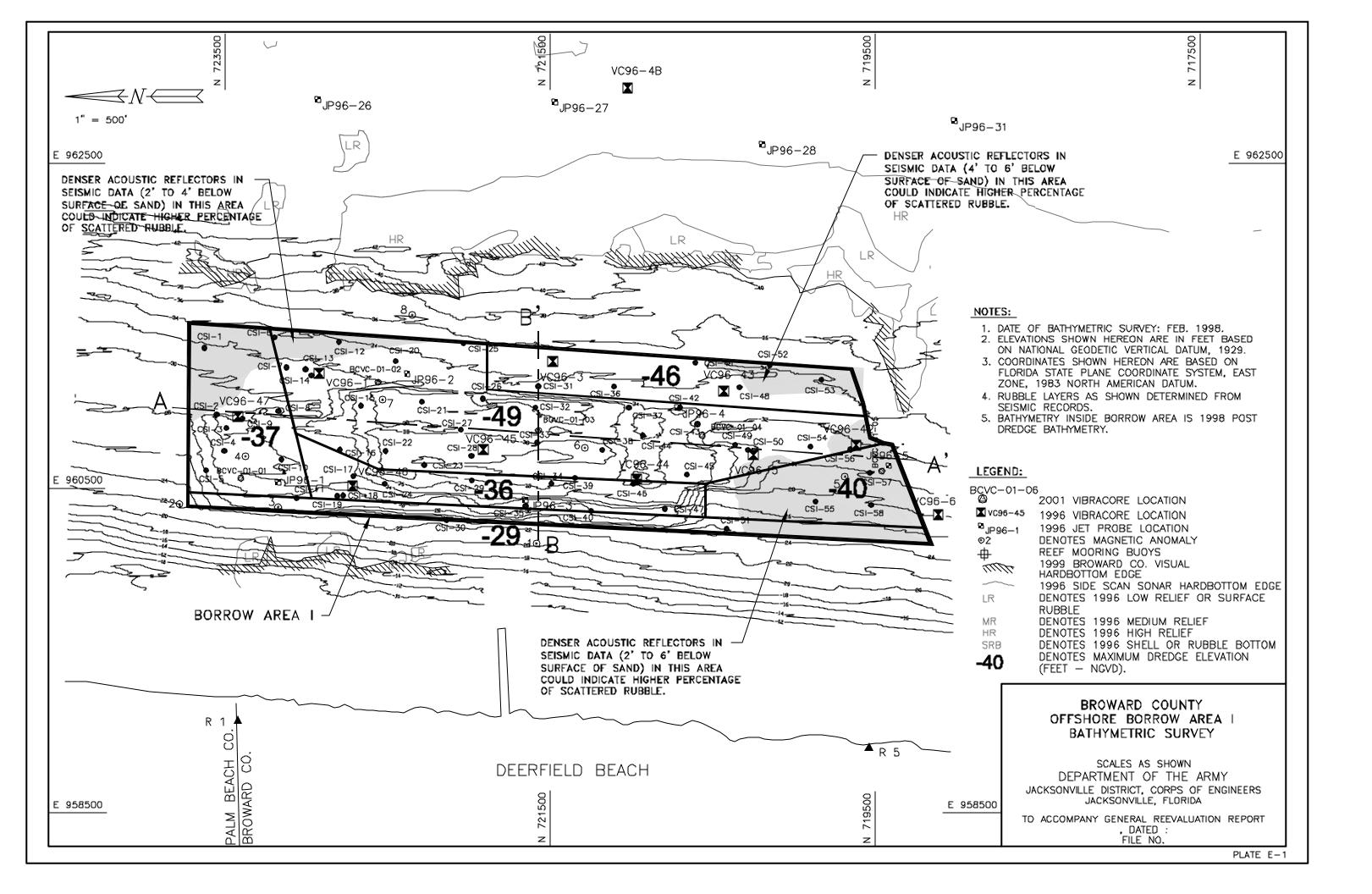
			
Profile	_	•	e to -12.5 ft NGVD
	(Does n	ot include grain :	sizes > 0.7 mm)
	Mean (mm)	Sorting (phi)	% Silt
R-87	0.32	0.80	1.64%
R-90			
R-93	0.35	0.65	0.72%
R-96			
R-102			
R-105	0.35	0.75	2.34%
R-108			
R-111	0.32	0.58	0.38%
R-114			
R-117	0.27	0.62	0.93%
R-120			
R-123	0.44	0.90	0.68%
R-126			
J.U.L. (R-87 to R-96)	0.33	0.72	1.18%
H.H. (R-102 to R-126)	0.34	0.71	1.08%

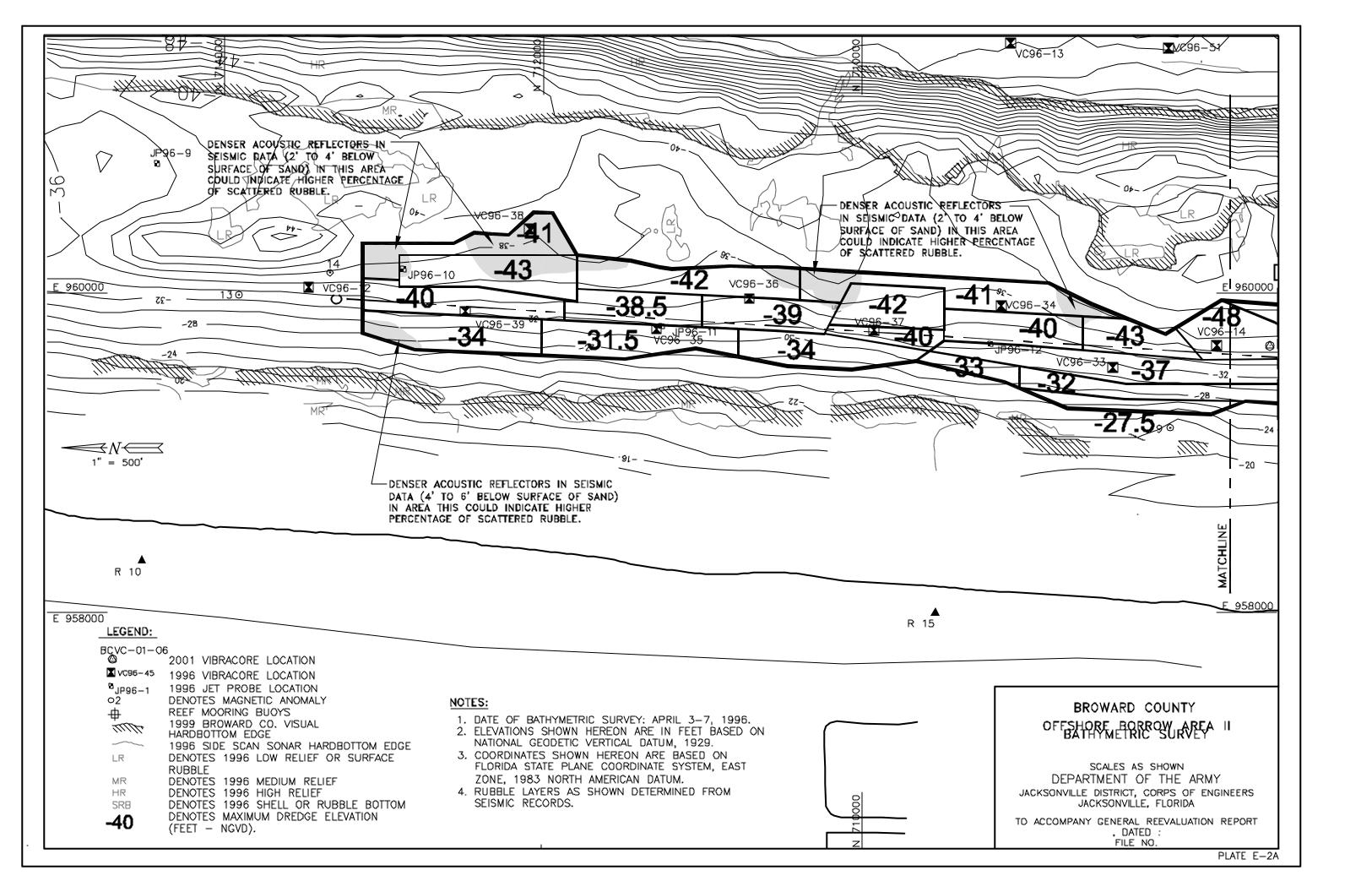
CONCLUSIONS

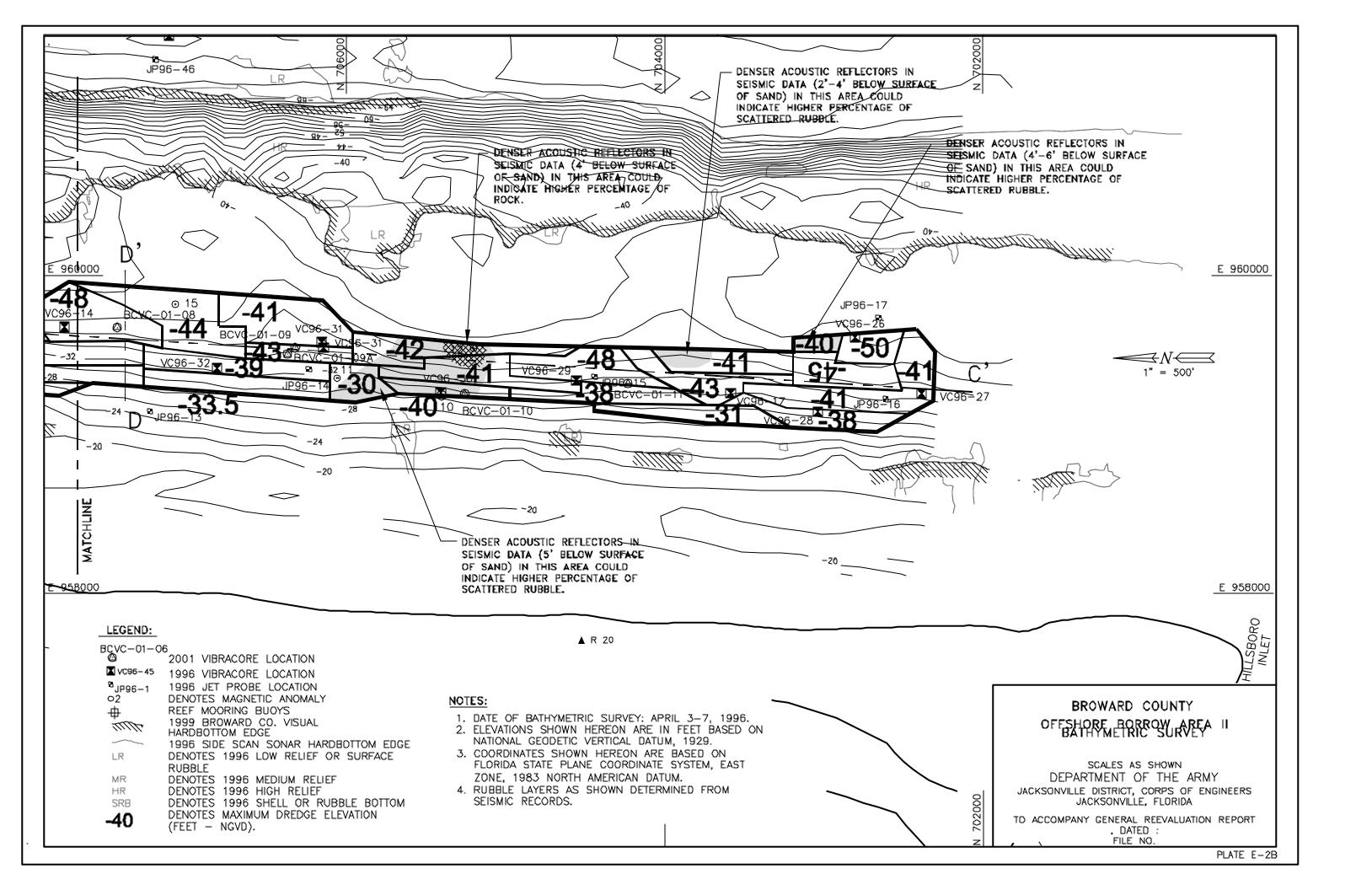
- E-33. The five borrow areas located offshore of Broward County can be utilized for purposes of beach nourishment for Segment II and Segment III. Using a 200 to 400-foot buffer from the adjacent hardbottom communities, the total dredge volume of beach compatible sand is 4.489 million cubic yards. The total estimated volume of sand required to renourish Segment II and Segment III is approximately 2.4 million cubic yards. Based on the estimated volume, the borrow areas provide for 187% of the required volume.
- E-34. While there is adequate sand for the next nourishment, the remaining nourishments, in the authorized project lives, will require approximately 900,000 cubic yards of beach compatible sands above that which is currently identified. Known sources of beach compatible sand exist both upland and further north along the coast which could be utilized for the last nourishment.

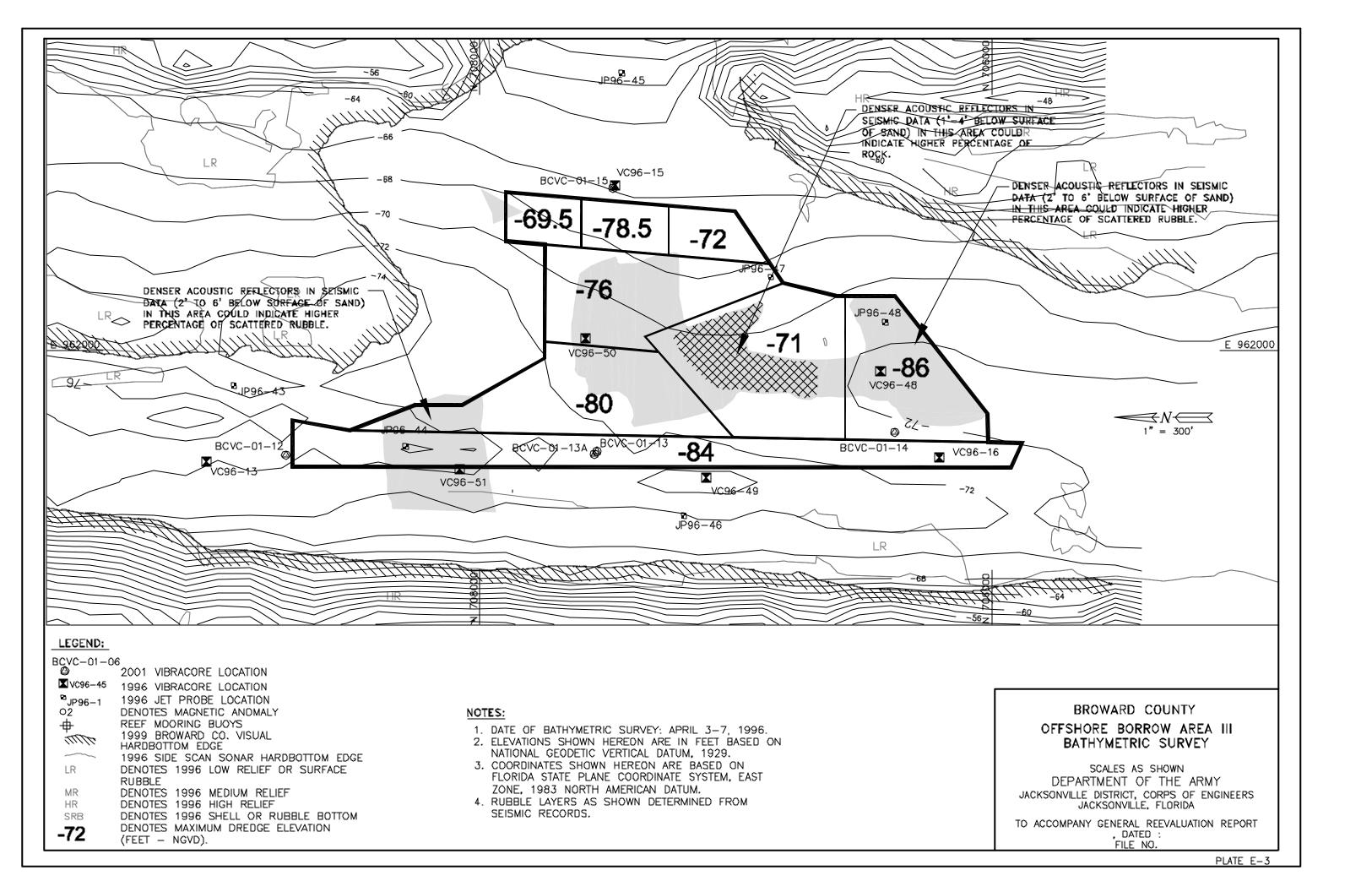
REFERENCES

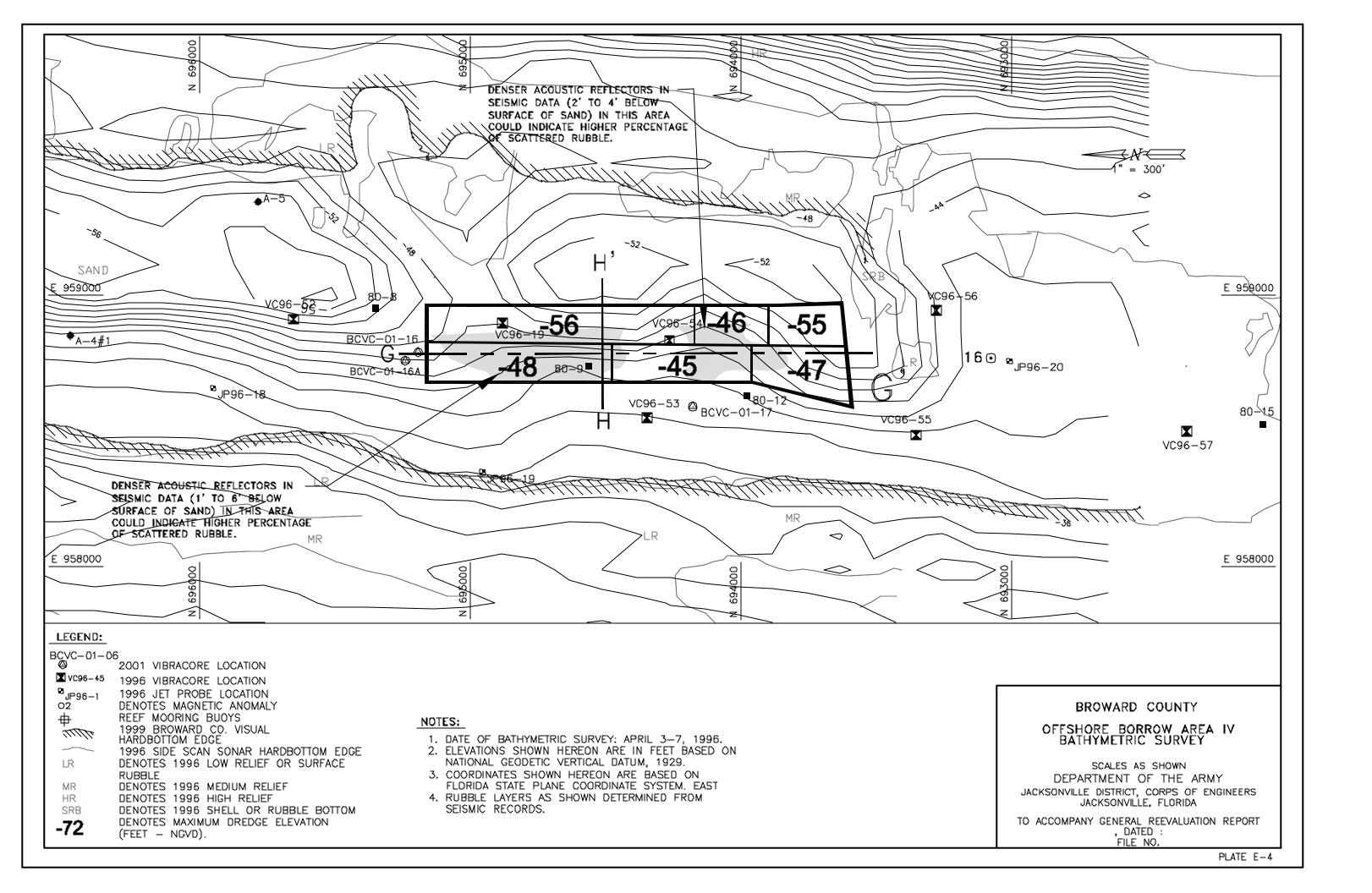
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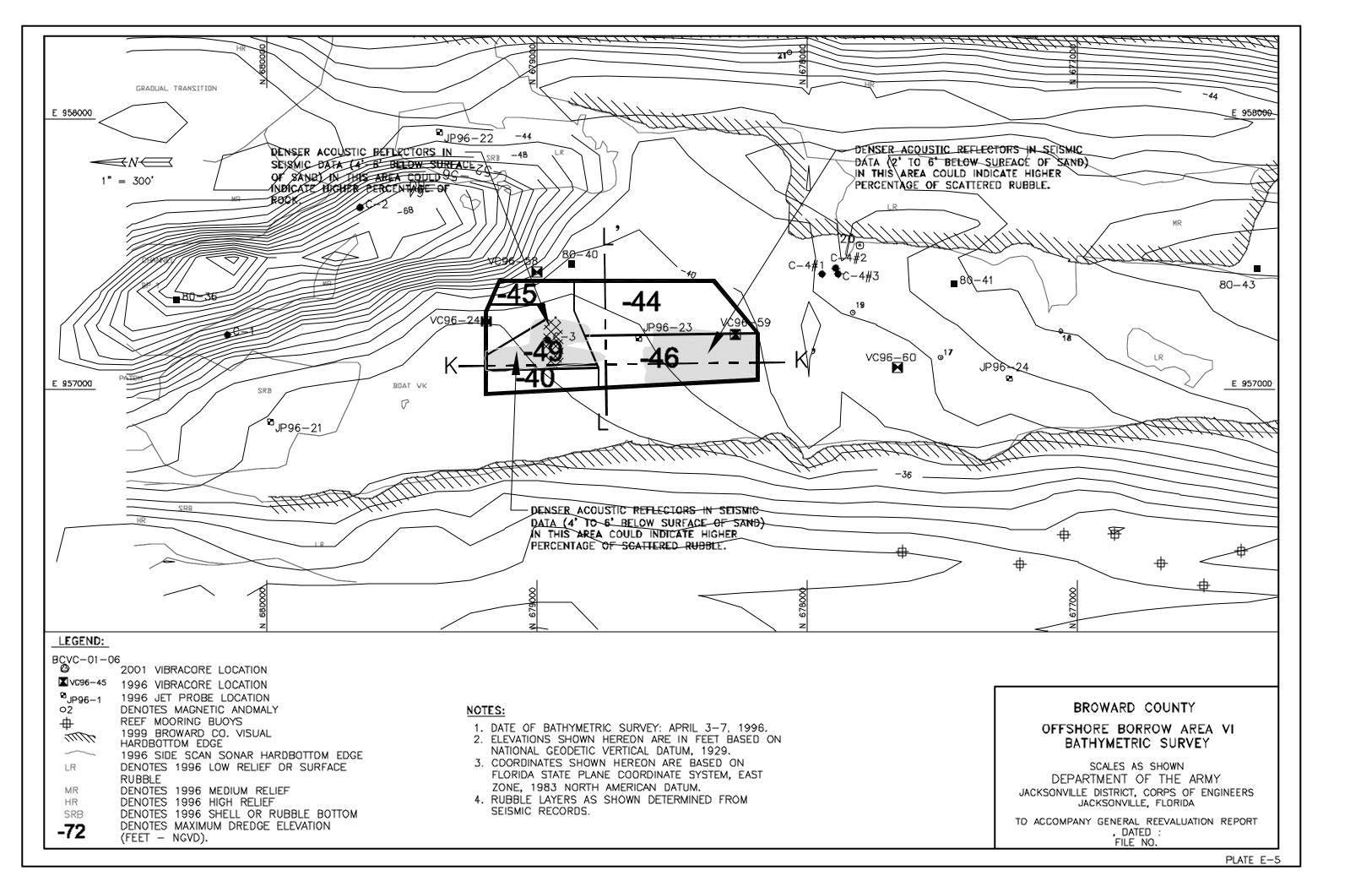


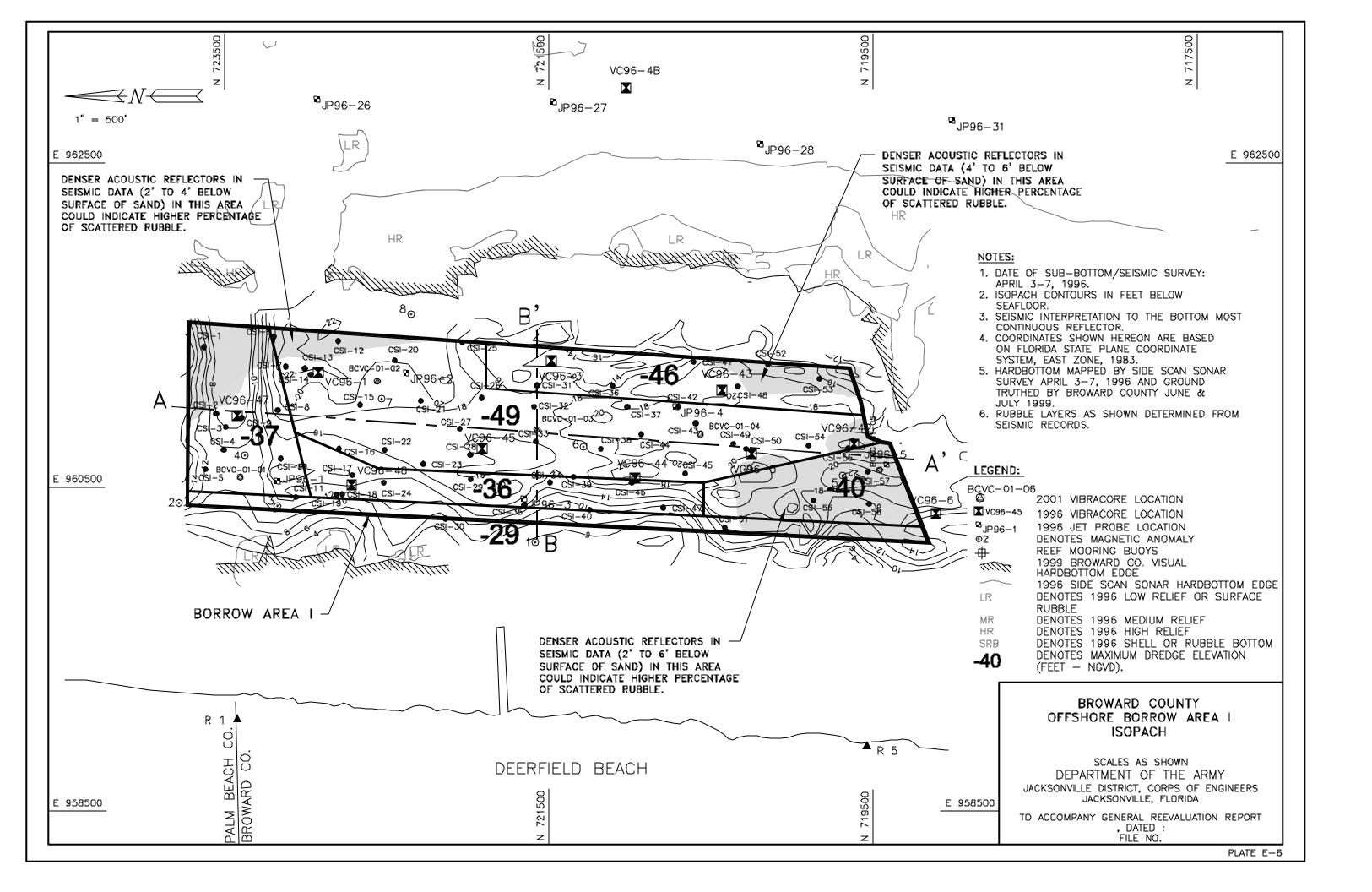


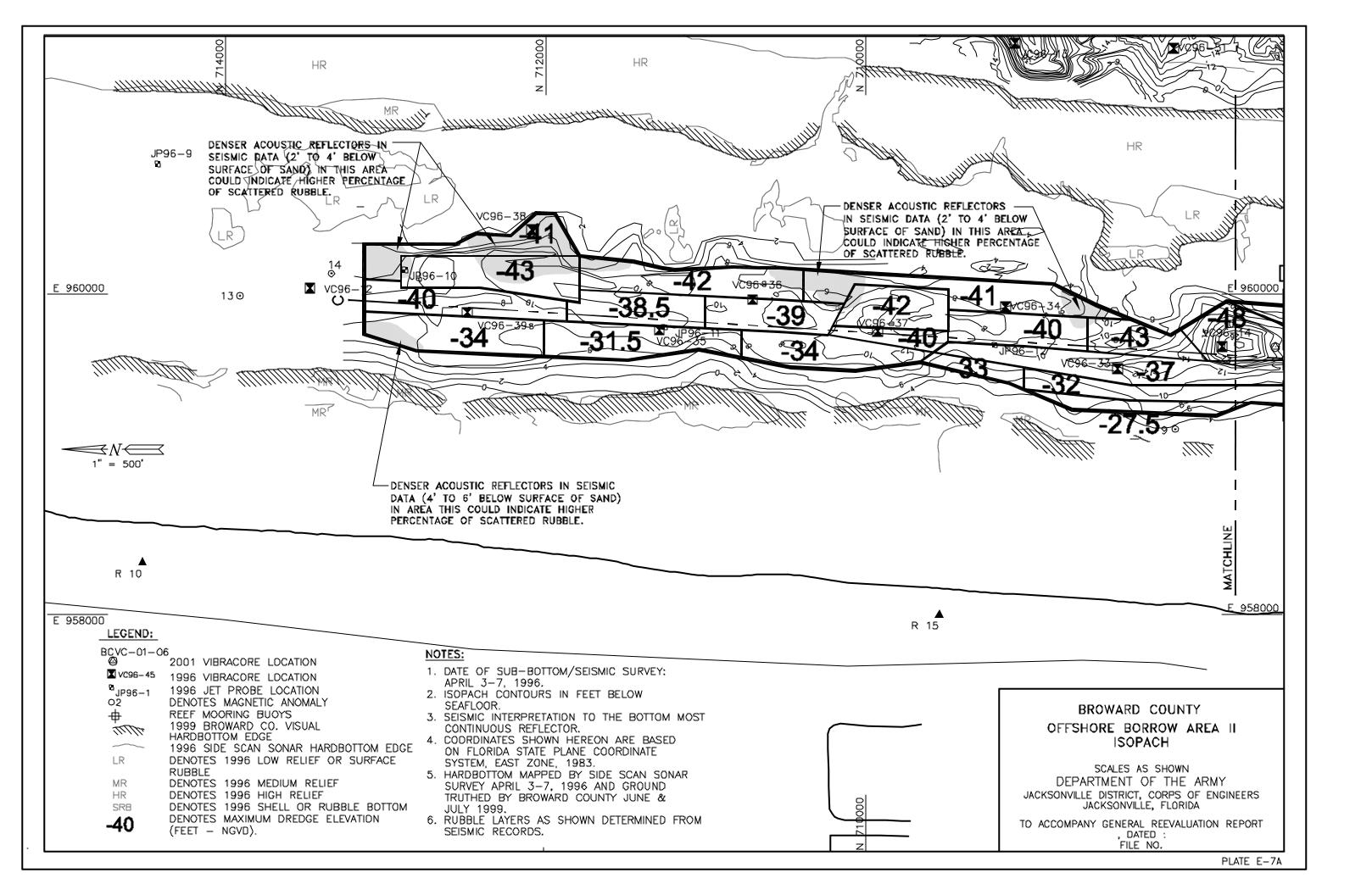


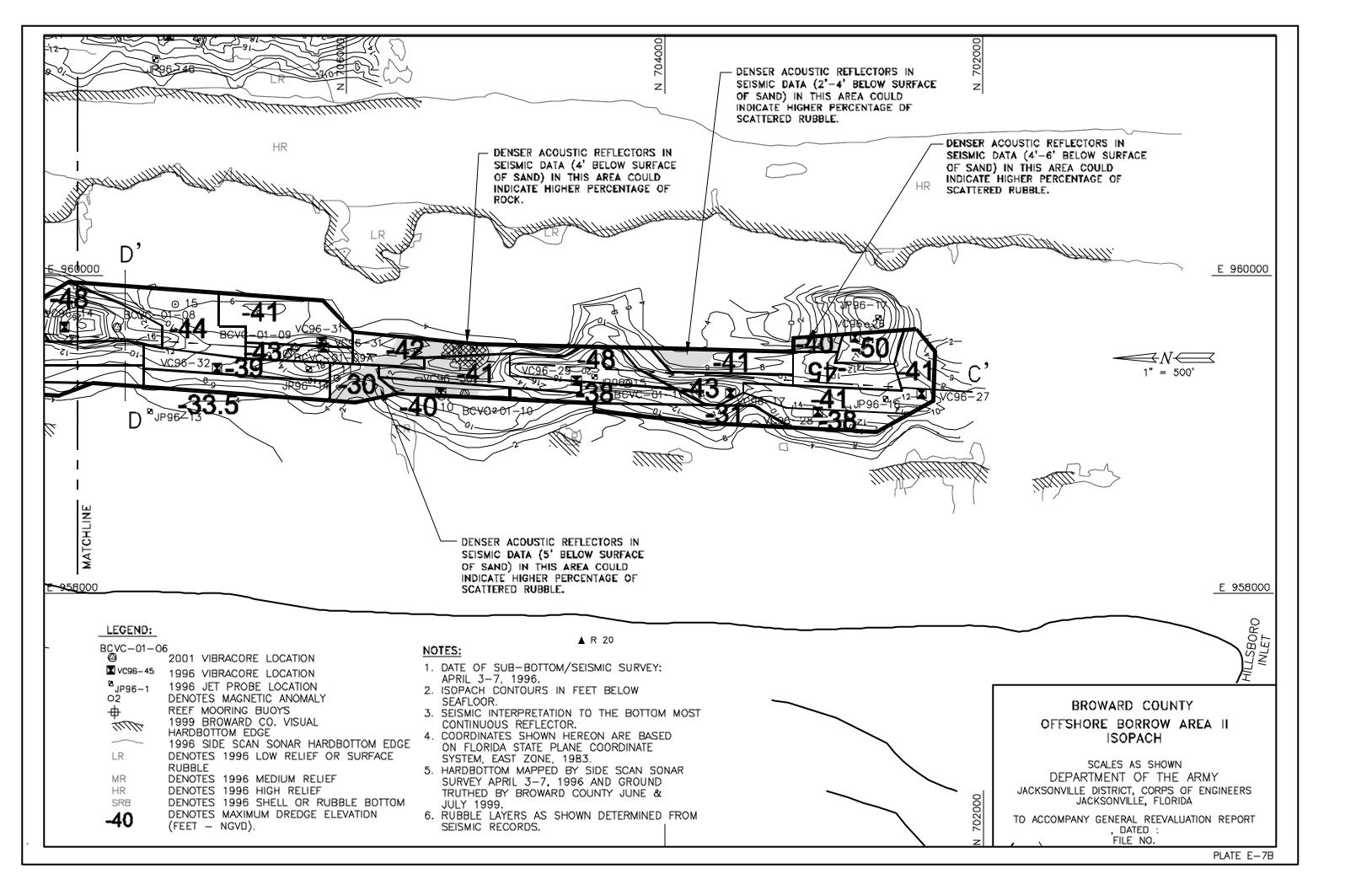


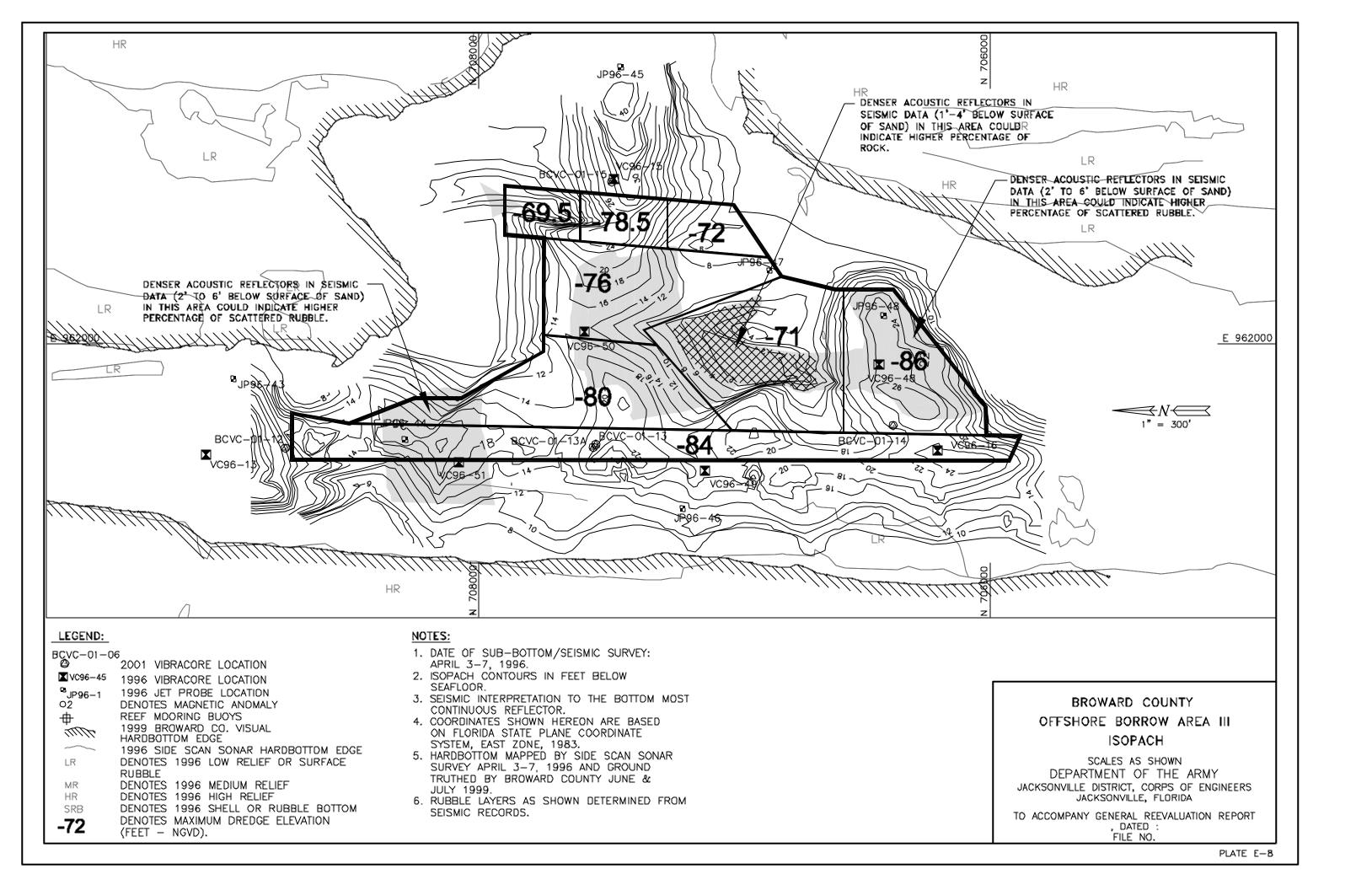


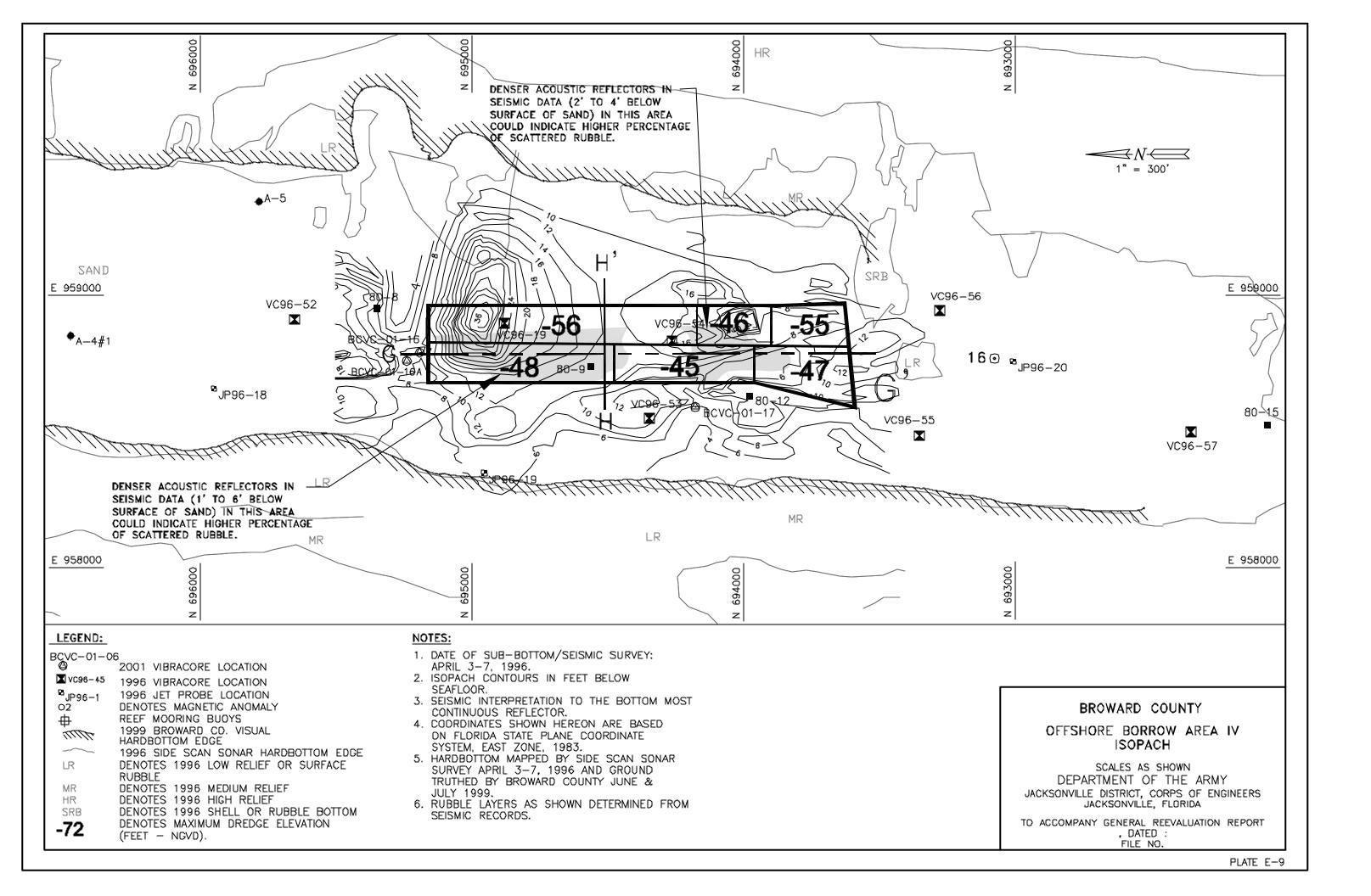


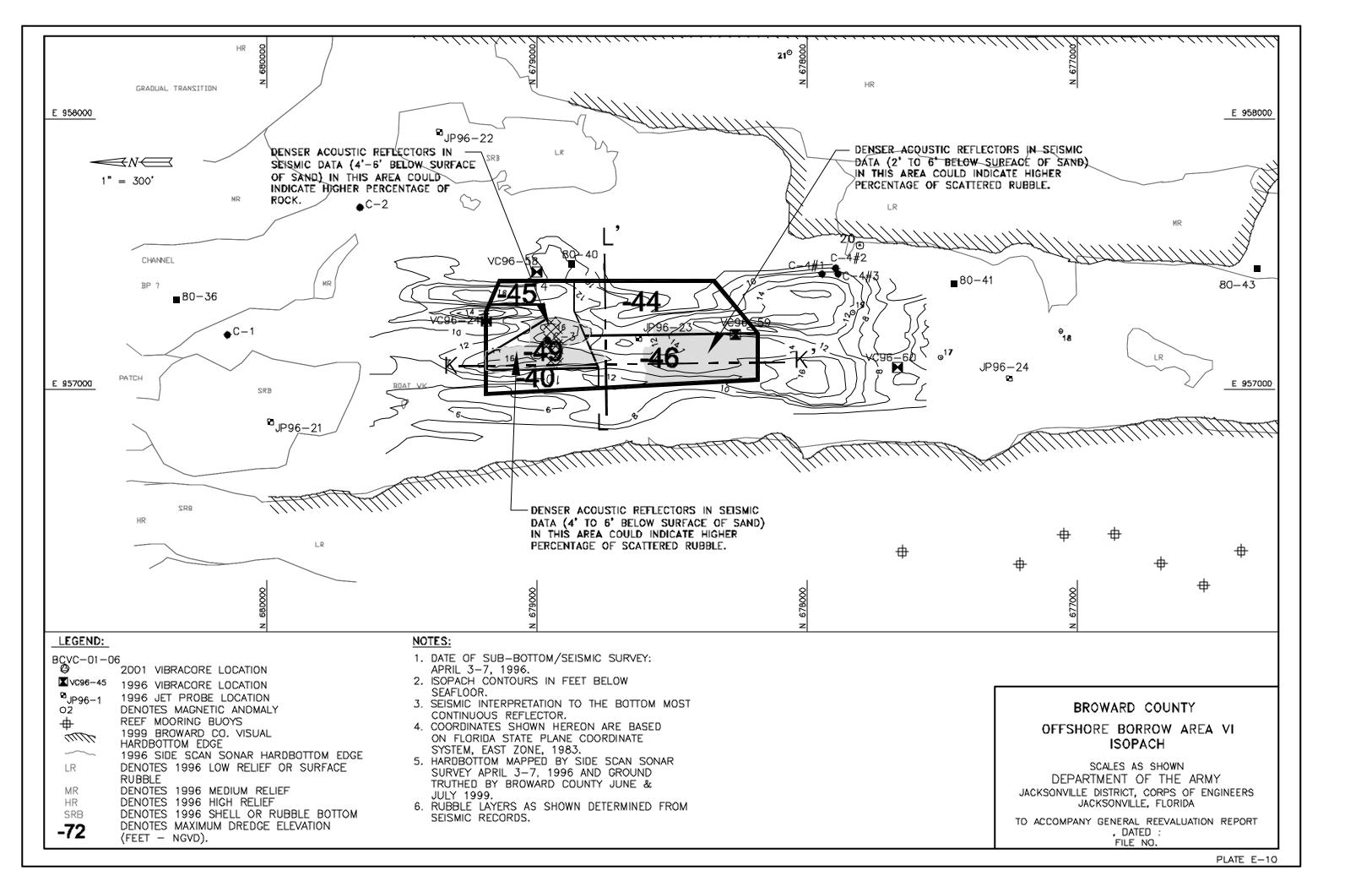












SUB-APPENDICES E-1 THROUGH E-5 GEOTECHNICAL DATA

GENERAL REEVALUATION REPORT BROWARD COUNTY, FLORIDA BEACH NOURISHMENT PROJECT

Prepared For:

Broward County

Prepared By:

Coastal Planning & Engineering, Inc. 2481 N.W. Boca Raton Boulevard Boca Raton, Florida 33431

June 2000

US Army Corps of Engineers Jacksonville District

SUB-APPENDICES E-1 THROUGH E-5

GEOTECHNICAL DATA

GENERAL REEVALUATION REPORT SEGMENTS II & III, BROWARD COUNTY, FLORIDA BEACH NOURISHMENT PROJECT

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Gradation Analysis Reports

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SUB-APPENDICES E-1 THROUGH E-5

GEOTECHNICAL DATA

GENERAL REEVALUATION REPORT SEGMENTS II & III, BROWARD COUNTY, FLORIDA BEACH NOURISHMENT PROJECT

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Grain Size Distribution Curves

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Sub-Appendix E-5

Composite Grain Size Reports

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Outside Borrow Areas

SUB-APPENDIX E-1 JET PROBE LOGS



JET PROBE LOG							
PROJECT: BROWARD COUNTY BA I							
COORDINATES:	DATE: JUNE 2	5, 1996		WAT	TER DEPTH: 25.0 Ft. NGVD		
N = 723015	START TIME:	1544		TOP	DIVER : DB		
E = 804301	END TIME:	1549		вот	TOM DIVER : SM		
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPTH:	18.0'	25.0'	воттом				
JET PUMP TYPE: BRIGG STRATTON 5 GAL / HR :	.0 HP		1 _ 2	1 1 1 1			
DIAMETER OF PIPE:	1.5"		3 _	٨	SHELL FRAGMENTS LAYER		
SUPPORT VESSEL: CPP			4 _	7.2			
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM			5 _	1 1			
WEATHER:			6 _	12			
WIND DIR.: SE SPEED: 10 - 15 KT			8 _		SAND / SHELL HASH		
_WAVES DIR.: SE HEIGHT: 2-3 FT.			10	-	SAAS / SHEED IP-SH		
CURRENT DIR.: NORTH SPEED: LIGHT			12 .				
LEGEND			14				
SAND	SHELL HASH		15	- ~ ~ ~			
	_~ ~		17]- -			
SHELL FRAG.	ROCK FRAG.	43.0'_	_ 18		ROCK		
_ ^ ^			19	1			
CORAL FRAG. Ω Ω Ω	RUBBLE		20	-			
ΩΩ			22	-			
XXX XX]		23	7			
TURBIDITY: TOP (0'-9'): LOW BOTTOM (9'-18'): MOD	ERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA I JET PROBE: JP96 - 3							
COORDINATES:	DATE: JUNE 2	5, 1996		WAT	ER DEPTH: 25.0 Ft. NGVD		
N = 721492	START TIME:	1627		ТОР	DIVER : DB		
E = 804193	END TIME:	1632		вот	TOM DIVER : SM		
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPTH	: 16.0'	25.0'	воттом				
JET PUMP TYPE: BRIG STRATTON : GAL / HR :	5.0 HP		1 _	~	14. 3		
DIAMETER OF PIPE:	1.5"		2 _	~	1 st ATTEMPT REFUSAL		
SUPPORT VESSEL: CP	E II		3 _	2	SAND / SHELL HASH		
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM			5 _	~ ~ ~			
WEATHER:			6 _	2 2 2			
WIND DIR.: SE SPEED: 10 - 15 KT			8 _	~			
_WAVES DIR.: SE HEIGHT: 2-4 FT.			10 _	2 3 3 3 3	RUBBLE LAYER		
CURRENT DIR.: NORTH SPEED: LIGHT			11 _ 12 _ 13 _	2 2	sand/shell hash		
LEGEND			14 _	7			
SAND	SHELL HASH	44.51	15 _	~			
	~ ~ ~	41.0'	16 _	XX XX	ROCK		
SHELL FRAG.	ROCK FRAG.		18 _				
^^^			19 _				
CORAL FRAG.	RUBBLE		20 _				
ΩΩΩ ΩΩ	= = =		21 _				
ROCK XXX	ገ		23				
XX	<u> </u>		24 _				
TURBIDITY TOP (0'-8'): M BOTTOM (8'-16'): H	IODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

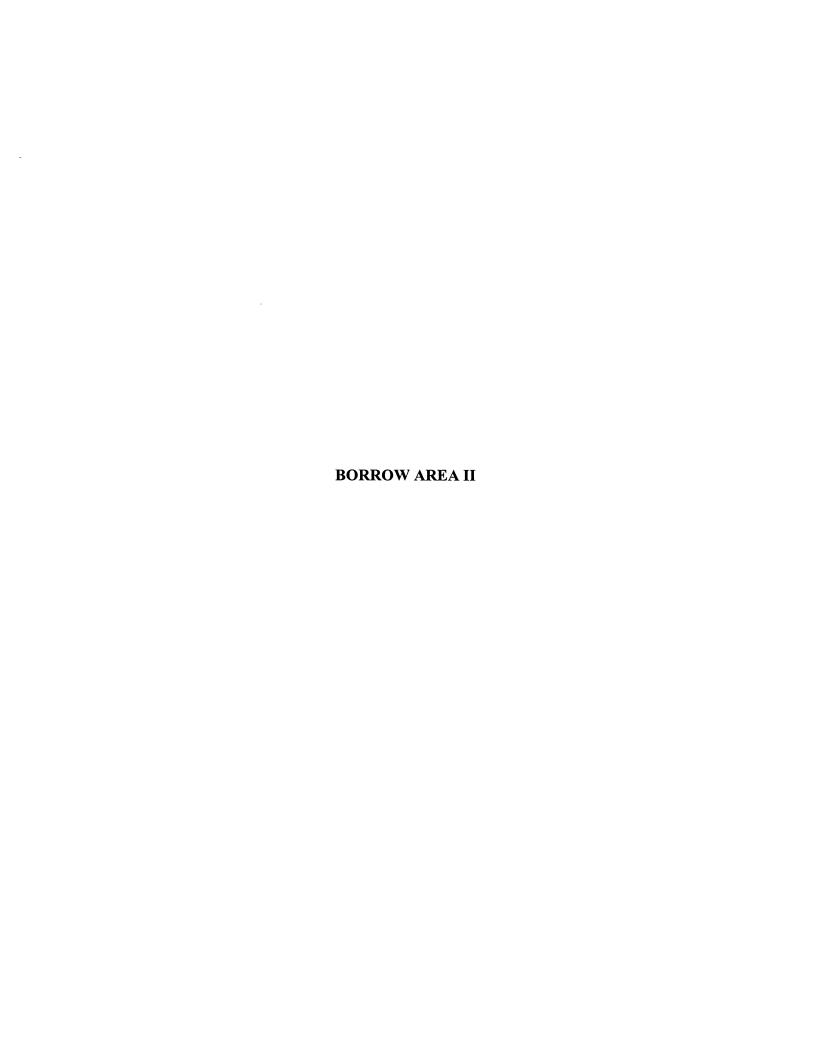
COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA I							
COORDINATES:	DATE: JUNE 2		WA ⁻	TER DEPTH: 33.0 Ft. NGVD			
N = 720552	START TIME:	1645		TOF	P DIVER : DB		
E = 804759	END TIME:	1646		вот	TOM DIVER : SM		
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPTH	: 7.0'	33.0'	воттом		,		
JET PUMP TYPE: BRIG STRATTON S GAL / HR :	5.0 HP		1 _	1 1 1	-		
DIAMETER OF PIPE:	1.5"		3	7 7 7			
SUPPORT VESSEL: CPI	3 II		4 _] =	Sand / Shell hash		
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM			5 _	7 7 7			
WEATHER:	, mirack		6 _	~ ~			
WIND		40.0'	7 -	XX	ROCK		
DIR.: SE SPEED: 10 - 15 KT			8 _	XX			
5PEED: 10-13 KI			9 _		3 ATTEMPTS ALL REFUSAL AT 7.0'		
<u>WAVES</u> DIR.: SE			10				
HEIGHT: 2-3 FT.			10_				
<u>CURRENT</u> DIR.: NORTH			11 _				
SPEED: LIGHT	·		13 _				
LEGEND			14 _	$\frac{1}{2}$			
SAND.	SHELL HASH		15	$\frac{1}{2}$			
	~ ~ ~		16	-			
			17	1			
SHELL FRAG.	ROCK FRAG.		18				
·			20				
CORAL FRAG. Ω Ω	RUBBLE = =		21				
ΩΩ	_ = =		22	-			
ROCK			23	4			
XXX	J		24	-			
TURBIDITY TOP (0'-4'): L BOTTOM (4'-7'): M	.ow				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG									
PROJECT: BROWARD COUNTY BA I JET PROBE: JP96 - 5									
COORDINATES:	DATE: JUNE 2	5, 1996		WATE	ER DEPTH: 30.5 Ft. NGVD				
N = 719254	START TIME:	1704		TOP [DIVER : DB				
E = 804402	END TIME:	1710		вотт	OM DIVER : SM				
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION				
PENETRATION DEPTH:	19.5'	30.5'	воттом						
JET PUMP TYPE: BRIGO STRATTON 5 GAL / HR :	.0 HP		1 _		SAND / SHELL HASH				
DIAMETER OF PIPE:	1.5"		3 _	-					
SUPPORT VESSEL: CPE	H		4	Ω	CORAL FRAGMENTS LAYER				
POSITIONING: DIFFERI USCG BEACON NAVIGATION SYSTEM			5 _	7 7 7 2					
WEATHER:			7] ~	SAND / SHELL HASH				
WIND DIR.: SE SPEED: 10 - 15 KT			8 _	7 7 2					
WAVES DIR.: SE			10	ΩΩ	CORAL FRAGMENTS LAYER				
HEIGHT: 2-3 FT. CURRENT DIR.: NORTH SPEED: LIGHT			11 _	7 7					
LEGEND			14	7 7 7 7	SAND/SHELL HASH				
SAND	SHELL HASH		16]~ ~					
SHELL FRAG.	ROCK FRAG.		17	~ ~					
^^^		50.0'_	19 19.5	-					
CORAL FRAG. Ω Ω Ω Ω	RUBBLE = =		20	_XX XX	ROCK				
ROCK			22	+					
XXX XX			24	7					
TURBIDITY TOP (0' - 9'): M BOTTOM (9' - 19.5'): I	IODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37				

COASTAL PLANNING & ENGINEERING, INC.



JET PROBE LOG								
PROJECT: BROWARD C	COUNTY BA II			_	JET PROBE: JP96 - 11			
COORDINATES:	DATE: JUNE 2	8, 1996		WAT	ER DEPTH: 32.0 Ft. NGVD			
N = 711099	START TIME:	1506		TOP	DIVER : TC			
E = 803558	END TIME:	1509		вот	TOM DIVER : DB			
LENGTH OF PVC PIPE:	20.0'	ELEV.	DEPTH		DESCRIPTION			
PENETRATION DEPTH		32.0'	воттом	10000000				
JET PUMP TYPE: BRIG STRATTON			1					
GAL / HR :								
DIAMETER OF PIPE:	1.5"		2 _					
SUPPORT VESSEL: CP	EII		3 -					
POSITIONING: DIFFEI USCG BEACON	RENTIAL GPS		5 _]=				
NAVIGATION SYSTEM	I; "HYPACK"	-		-				
WEATHER:			7	~ ~	SAND / SHELL HASH			
_WIND			-					
DIR.: SE SPEED: 5 - 10 KT		,	8 -	ΩΩ	Coral fragments layer			
_WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			10 _	-				
CURRENT								
DIR.: NORTH SPEED: STRONG		44.0'	12	XX	ROCK			
		1	13	_xx				
LEGEND)		14	1				
SAND	SHELL HASH		15					
	~ ~		17					
SHELL FRAG.	ROCK FRAG.		18					
^ ^ ^	e e		19	_				
	p. 1 m. n		20	4				
Ω Ω Ω Ω	RUBBLE = = =		21	-				
			22					
XXX XX]		23	7				
TURBIDIT		1			DRAWN BY : MDA			
TOP (0' - 6'): MOI BOTTOM (6' - 12'):	DERATE MODERATE				CHECK BY: JLA COMM. NO: 5350.37			

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA IIJET PROBE: JP96 - 15							
	DATE: JUNE 2			ER DEPTH: 34.0 Ft. NGVD			
	END TIME:			вот	TOM DIVER : TC		
LENGTH OF PVC PIPE:			DEPTH		DESCRIPTION		
PENETRATION DEPTH	: 18.0'	34.0'	воттом				
JET PUMP TYPE: BRIG STRATTON S GAL / HR :	5.0 HP		1 _	1111			
DIAMETER OF PIPE:	1.5"		3 _]~			
SUPPORT VESSEL: CPI	E II]	4 _	1 1			
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM			5 _	~ ~ ~	SAND / SHELL HASH		
WEATHER:			6 _	~ ~ ~			
<u>WIND</u> DIR.: SE SPEED: 10 - 15 KT			8 _	7 7 7			
_WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			10 _	-	sand/shell hash		
CURRENT DIR.: NORTH SPEED: MODERATE	ı		12 _	7			
LEGEND			14	7-	Sand / Shell Hash		
SAND	Shell hash		15	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
	~ ~ ~		16				
		52.0'	17	~ ~			
SHELL FRAG.	ROCK FRAG.	52.0	18	XX	ROCK		
			20				
CORAL FRAG. Ω Ω Ω Ω Ω	RUBBLE		21				
BUCA			23				
XXX XX]		24				
TURBIDITY TOP (0'-9'): 1 BOTTOM (9'-18'):	MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY BA II								
N = 702496	DATE: JUNE 2 START TIME: END TIME:	1816		ТОР	TER DEPTH: 41.0 Ft. NGVD DIVER: JN TOM DIVER: TC			
				501				
LENGTH OF PVC PIPE: PENETRATION DEPTH JET PUMP TYPE: BRIGG STRATTON:	: 9.0' GS &	41.0'	DEPTH BOTTOM	-	DESCRIPTION			
GAL / HR : DIAMETER OF PIPE: SUPPORT VESSEL: CPI	1.5"		² _	1 1 1 1	Sand / Shell Hash			
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM	ENTIAL GPS		5 _	1111	SALO) SIELE MAIN			
WEATHER:			7 _	1 1 8				
WIND DIR.: VAR. SPEED: 5-10 KT		50.0	8 _	<	SAND WITH SHELL FRAGMENTS. AND RUBBLE LAYERS			
_WAVES DIR.: VAR. HEIGHT: 1-2 FT.		00.5	10 _	XX XX	ROCK			
CURRENT DIR.: NORTH SPEED: LIGHT			11 _					
LEGEND			14 _	-				
SAND	SHELL HASH		15 _ 16 _					
SHELL FRAG	ROCK FRAG.		17 _					
^ ^ ^			19					
CORAL FRAG. Ω Ω	RUBBLE		20 ₋					
ΩΩ			22	-				
XXX XX			23 .	1				
TURBIDITY TOP (0'-5'): M BOTTOM (5'-9'): M	ODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY BA JI								
COORDINATES:	DATE: JUNE 2	5, 1996		WAT	ER DEPTH: 32.5 Ft. NGVD			
N = 722219	START TIME:	1627		TOP	DIVER : DB			
E = 804969	END TIME:	1632		вот	TOM DIVER : SM			
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION			
PENETRATION DEPTH:	18.5'	32.5'	воттом	1				
JET PUMP TYPE: BRIGG STRATTON 5 GAL / HR : DIAMETER OF PIPE:	.0 HP 8460		1 _ 2 _	2 7 2 1	SAND / SHELL HASH			
SUPPORT VESSEL: CPE			3 _	-				
POSITIONING: DIFFER USCG BEACON			5 _		SAND WITH SHELL FRAGMENTS. AND RUBBLE LAYERS			
WEATHER: WIND DIR.: SE SPEED: 10 - 15 KT	; "HYPACK"		6 _ 7 _ 8 _ 9 _	7 0 7 0 7 0	SAND/SHELL HASH WITH CORAL FRAGMENTS			
WAVES DIR.: SE HEIGHT: 2-4 FT. CURRENT DIR.: NORTH SPEED: LIGHT			10 _ 11 _ 12 _ 13					
LEGEND			14	2 2 2 2	SAND / SHELL HASH			
SAND	SHELL HASH		16	7 7 7 7				
SHELL FRAG.	ROCK FRAG.	51.0'_	18 18.5 19		ROCK			
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	RUBBLE = = =		20 21 22	7				
XXX XX]		23	-				
TURBIDITY TOP (0'-9'): LOW BOTTOM (9' - 18.5'):	/ MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY BA II JET PROBE: JP96 - 10								
	DATE: JUNE 2 START TIME:			WATER DEPTH: 37.5 Ft. NGVD TOP DIVER: DB				
E = 803917	END TIME:	1835		вот	TOM DIVER : SM			
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION			
PENETRATION DEPTH	: 13.5'	37.5'	воттом					
JET PUMP TYPE: BRIG STRATTON : GAL / HR :	5.0 HP 8460		1 _		Sand/Shell Hash			
DIAMETER OF PIPE:			3 _					
SUPPORT VESSEL: CPI POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM WEATHER:	ENTIAL GPS		5 _ 6 _ 7 _	2 2 2 2 2 2	SAND / SHELL HASH WITH SHELL FRAGMENTS LAYER			
WIND DIR.: SW SPEED: 5-10 KT WAVES DIR.: SOUTH HEIGHT: 1-2 FT. CURRENT DIR.: SOUTH SPEED: MODERATE	3		8 _ 9 _ 10 _ 11 _ 12	-	SAND/SHELL HASH CORAL FRAGMENTS LAYER			
LEGEND		51.0'	13 . 13.5 _ 14 .	- ~ - XX	ROCK			
SHELL FRAG. A A A CORAL FRAG. \[\Omega \	ROCK FRAG.		15 16 17 18 19 20 21	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
ΩΩ Ω ROCK XXX XX			22 23 24					
TURBIDITY	MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG									
PROJECT: BROWARD COUNTY BA II									
N = 709036	ATE: JUNE 2	1527		WATER DEPTH: 32.5 Ft. NGVD					
E = 803448 E	ND TIME:	1530		БОТ	TOM DIVER : DB				
LENGTH OF PVC PIPE: PENETRATION DEPTH:		ELEV. (- FT.) 32.5'	БОТТОМ		DESCRIPTION				
JET PUMP TYPE: BRIGG: STRATTON 5.0 GAL / HR: 8 DIAMETER OF PIPE:	0 HP 8460	-	1 _ 2 _						
SUPPORT VESSEL: CPE POSITIONING: DIFFERE USCG BEACON NAVIGATION SYSTEM;	NTIAL GPS		4 _ 5 _ 6 _	7 7 7 7 7	SAND / SHELL HASH				
WEATHER: WIND DIR.: SE SPEED: 5-10 KT WAVES			7 _ 8 _ 9 _	1118811	CORAL FRAGMENTS LAYER				
DIR.: SOUTH HEIGHT: 1 - 2 FT. CURRENT DIR.: NORTH SPEED: STRONG		43.5'	10 -	- XX	ROCK				
LEGEND	SHELL HASH		14 . 15 .						
SHELL FRAG.	ROCK FRAG.		17						
CORAL FRAG. ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	RUBBLE = = = = =		20 21 22	_					
ROCK XXX XX			23	7					
TURBIDITY: TOP (0'-6'): MO BOTTOM (6'-11'): MO	ODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37				

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY BA IIJET PROBE: JP96 - 14_								
N = 706077	DATE: JUNE 2 START TIME:	1600		ТОР	ER DEPTH: 32.0 Ft. NGVD DIVER: JN			
E = 803173	END TIME:	1603		ВОТ	TOM DIVER : TC			
LENGTH OF PVC PIPE: PENETRATION DEPTH		ELEV. (- FT.) 32.0'	DEPTH		DESCRIPTION			
JET PUMP TYPE: BRIG STRATTON GAL / HR :	5.0 HP		1 _	2 2 2	SAND / SHELL HASH			
DIAMETER OF PIPE: SUPPORT VESSEL: CP	E II		3 _	< ~ ~ ~ <	Sand/Shell hash with Shell fragments layers			
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM			5 _	\$ < 7 7 7				
WEATHER: WIND DIR.: SE SPEED: 5 - 10 KT			8 _	7 7 7 7 7				
WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT. CURRENT			10 _		SAND / SHELL HASH			
DIR.: NORTH SPEED: MODERATI			13	1 1 1 1				
SAND	SHELL HASH		15 .	7777				
	~ ~	49.0'	_ 17 .	Ž XX	ROCK			
SHELL FRAG. A A A A A	ROCK FRAG.		18	_xx -				
CORAL FRAG.	RUBBLE		20	-				
ΩΩ			22	-				
XXX XX			23	1				
TURBIDITY TOP (0'-9'): I BOTTOM (9'-17):	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA II							
	DATE: JUNE 2 START TIME:	•			ER DEPTH: 32.0 Ft. NGVD DIVER: JN		
E = 802893	END TIME:	1806	<u> </u>	BOT	TOM DIVER : TC		
LENGTH OF PVC PIPE:		ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPTH		32.0'	воттом				
JET PUMP TYPE: BRIG STRATTON : GAL / HR :	5.0 HP		1 _ 2 _	2 2 2			
DIAMETER OF PIPE:			3 _				
SUPPORT VESSEL: CPI POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM	ENTIAL GPS		5 _	7 7 7 7			
WEATHER:			7	~ ~	SAND / SHELL HASH		
WIND DIR.: VAR. SPEED: 5-10 KT			8 _	~ ~ ~ ~			
WAVES DIR.: VAR. HEIGHT: 1-2 FT. CURRENT DIR.: NORTH			10 .				
SPEED: LIGHT		44.5'	12.5 13	xx	ROCK		
LEGEND			14	XX -			
SAND	Shell hash		15	-			
	~ ~ ~		16				
SHELL FRAG.	ROCK FRAG.		18				
			20	1			
CORAL FRAG. ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	RUBBLE E E E		21 22	7			
ROCK XXX	1		23	-			
XX			24	1			
TURBIDITY TOP (0' - 6'):! BOTTOM (6' - 12.5')	MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.



JET PROBE LOG								
PROJECT: BROWARD COUNTY BA III								
COORDINATES:	DATE: JUNE 2	26, 1996		WA:	TER DEPTH: 74.0 Ft. NGVD			
N = 708799	START TIME:	1401		TOP	DIVER : SJ			
E = 805627	END TIME:	1408		вот	TOM DIVER : MA			
LENGTH OF PVC PIF	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION			
PENETRATION DEP	ГН: 16.5'	74.0'	воттом					
JET PUMP TYPE: BR		1.119						
STRATTO GAL / HR			1 -	~ ~ ~	SAND / SHELL HASH			
DIAMETER OF PIPE	: 1.5"	76.5'	2.5	××	ROCK			
SUPPORT VESSEL:	CPE II		-	xx				
POSITIONING: DIFF USCG BEACON	ERENTIAL GPS		5 _		3 ATTEMPTS ALL REPUSAL AT 2.0			
NAVIGATION SYST	EM; "HYPACK	1						
WEATHER:			7					
_WIND			_					
DIR.: NW SPEED: 5-10 KT	r		8 _					
WAVES DIR.: SOUTH			10 _					
HEIGHT: 1-2 FT	•		11					
CURRENT DIR.: NORTH SPEED: LIGHT			12 _					
		4	13 _	-				
LEGENI)		14 _	-				
SAND	SHELL HASH		15	-				
SAND	~ ~ ~		16	-				
			17	-				
SHELL FRAG.	ROCK FRAG.		18	-				
_ ^ ^	•		19	-				
CORAL FRAG.	RUBBLE		20	1				
ΩΩΩ			21 .					
ROCK	_		23					
XXX			24	-				
TURBIDI		1			DRAWN BY : MDA			
TOP (0' - 1.7'): L BOTTOM (1.7' - 2.5	OW-MODERAT '): MOD./HIG	E SH			CHECK BY: JLA COMM. NO: 5350.37			

JET PROBE LOG						
PROJECT: BROWARD COUNTY BA III JET PROBE: JP96 - 45						
COORDINATES:	DATE: JUNE 2	27, 1996		WAT	ER DEPTH: 69.0 Ft. NGVD	
N = 707284	START TIME:	1449		TOP	DIVER : DB	
E = 806847	END TIME:	1454		вот	TOM DIVER: SM	
LENGTH OF PVC PI	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEP	TH: 14.0'	69.0'	воттом			
JET PUMP TYPE: BF STRATTO			١.	2		
GAL / HR			1 -	-		
DIAMETER OF PIPE	: 1.5"		2 _			
SUPPORT VESSEL:	CPE II		3 _	٨	SHELL FRAGMENTS LAYER	
POSITIONING: DIFF	FERENTIAL GPS	s	-			
USCG BEACON NAVIGATION SYST	EM · "HADYCA		5 _			
MATION 1101	, HITACK	1	6 _	100000		
WEATHER:			_	~	GLAID (OUD) I TLANS	
_WIND			7 -		SAND / SHELL HASH	
DIR.: SW			8 -	10000000		
SPEED: 10 - 15 K	Т		9	2		
WAVES				•		
DIR.: SOUTH HEIGHT: 1-2 FT			10	- 2		
neioni. 1-2 ii	•		11	- -		
CURRENT DIR.: NORTH	r		١			
SPEED: LIGHT			12	- *		
		-	13	- 2		
LEGEN	D	83.0'	14	- XX	ROCK	
SAND	SHELL HASH		15	_ XX		
	~ ~ ~		16	-		
SHELL FRAG.	ROCK FRAG.		18			
^ ^ ^	e e		19			
			20	4		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	RUBBLE		21	-		
1	<u> </u>		22	-		
ROCK XXX	_		23	4		
	_		24	-		
TURBIDI TOP (0'-7') BOTTOM (7'-14')	: MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA III JET PROBE: JP96 - 47							
COORDINATES: DATE: JUNE 2 N = 706702 START TIME:	1649		WATER DEPTH: 68.5 Ft. NGVD TOP DIVER: DB				
E = 806051 END TIME:	1655		BOTTOM DIVER : JA				
LENGTH OF PVC PIPE: 20.0'	ELEV. (- FT.)	DEPTH	DESCRIPTION				
PENETRATION DEPTH: 9.0' JET PUMP TYPE: BRIGGS &	68.5'	воттом					
STRATTON 5.0 HP GAL / HR: 8460		1 _	A SHELL FRAGMENTS LAYER				
DIAMETER OF PIPE: 1.5"		3 _					
SUPPORT VESSEL: CPE II		4 _					
POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM; "HYPACK		5 _	SAND / SHELL HASH				
WEATHER:		6 _	 ~				
<u>WIND</u> DIR.: SW SPEED: 5 - 10 KT		8 _					
_WAYES DIR.: SOUTH HEIGHT: 1-2 FT.	77.5'	9 _	XX ROCK				
CURRENT DIR.: NORTH		11 -					
SPEED: LIGHT	-	13 _	-				
LEGEND		14 _	-				
SAND SHELL HASH		15	-				
~ ~ ~		16					
SHELL FRAG. ROCK FRAG.		17					
		19					
CORAL FRAG. RUBBLE		20					
Ω Ω Ω = =		21	4				
Beer		22 .	7				
XXX XX		24					
TURBIDITY: TOP (0'-5'): MOD. / HIGH BOTTOM (5'-9'): MOD. / HIGH			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37				

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA III JET PROBE: JP96 - 44							
COORDINATES:	DATE: JUNE	26, 1996		WAT	ER DEPTH: 74.0 Ft. NGVD		
N = 708095	START TIME:	1422		TOP	DIVER: DB		
E = 805356	END TIME:	1427		вотт	TOM DIVER : SM		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEP	ГН: 20.0'+	74.0'	воттом				
JET PUMP TYPE: BR STRATTO			1 _		SAND		
GAL / HR					SAID		
DIAMETER OF PIPE	1.5"		3 _	=			
SUPPORT VESSEL: (CPE II		4 _		SAND WITH RUBBLE LAYERS		
POSITIONING: DIFF USCG BEACON	ERENTIAL GPS		5 _	=			
NAVIGATION SYST	EM; "HYPACK						
WEATHER:			7				
WIND			_				
DIR.: NW SPEED: 5 - 10 KT	r		8 -	-	1st ATTEMPT		
_WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT			9 -				
HEIGHT: 1-2 FT			11.				
CURRENT DIR.: NORTH			12				
SPEED: LIGHT							
		-	13	-	SAND		
LEGENI	D		14 .				
SAND	SHELL HASH		15	-			
	~ ~ ~		16	-			
			17	-			
SHELL FRAG.	ROCK FRAG.		18	$-\parallel \parallel$			
^ ^	e		19	-			
CORAL FRAG.	RUBBLE	94.0'_	_ 20				
Ω Ω Ω Ω Ω	= =		21	7			
100			22	7			
XXX XX	1		23	7			
`		4		-	DRAWN BY 3454		
TURBIDI' TOP (0'-10'): M BOTTOM (10'-20')	IOD. / HIGH				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA III JET PROBE: JP96 - 46							
COORDINATES:	DATE: JUNE 2	26, 1996		WAT	ER DEPTH: 72.0 Ft. NGVD		
N = 707042	START TIME:	1632		TOP	DIVER : DB		
E = 805120	END TIME:	1636	·	вот	TOM DIVER: SM		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	'H: 15.0'	72.0'	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR	1 5.0 HP		1 _		SAND		
DIAMETER OF PIPE:	1.5"		3 _				
SUPPORT VESSEL: O POSITIONING: DIFF USCG BEACON NAVIGATION SYSTE WEATHER:	ERENTIAL GPS		5 _ 6 _ 7 _	- ^	SAND WITH SHELL FRAGMENTS LAYERS		
WIND DIR.: SW SPEED: 5-10 KT WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			9	- \ \ \ - \ \ \ \ .	TOOLETTS EXTENS		
CURRENT DIR.: NORTH SPEED: LIGHT LEGENI)		11 12 13 14	-	SAND		
SAND	SHELL HASH	87.0'_	15 16 17	_XX	ROCK		
SHELL FRAG.	ROCK FRAG.		18	-			
CORAL FRAG. ΩΩΩ ΩΩ	RUBBLE = = =		20 21 22	-			
ROCK XXX XX			23	7			
TURBIDI TOP (0' - 7.5') BOTTOM (7.5' - 15')	: MOD/HIGH	н			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

JET PROBE LOG						
PROJECT: BROWARD COUNTY BA III JET PROBE: JP96 - 48						
N = 706256	DATE: JUNE 2 START TIME: END TIME:	1705		ТОР	TER DEPTH: 71.5.0 Ft. NGVD DIVER: DB TOM DIVER: SM	
LENGTH OF PVC PIPE		(- FT.)	DEPTH		DESCRIPTION	
JET PUMP TYPE: BRIG STRATTON GAL / HR: DIAMETER OF PIPE: SUPPORT VESSEL: CI POSITIONING: DIFFE	5.0 HP 8460 1.5"	71.5	1 _ 2 _ 3 _ 4 _	111111111	SAND / SHELL HASH	
USCG BEACON NAVIGATION SYSTE WEATHER:	M; "HYPACK	H	6 _	= = =	1st attempt SAND WITH RUBBLE LAYERS	
WIND DIR.: SE SPEED: 10 - 15 KT WAVES DIR.: SE HEIGHT: 2 - 3 FT.		79.5'	9 _	XX XX	ROCK	
CURRENT DIR.: NORTH SPEED: LIGHT			12 .	-		
LEGEND			14 .	-		
SAND	SHELL HASH		15 . 16 . 17 .	-		
SHELL FRAG.	ROCK FRAG.		18			
CORAL FRAG. ΩΩΩ ΩΩ	RUBBLE		20 21 22			
ROCK XXX XX]		23	-		
TURBIDIT TOP (0'-4'): BOTTOM (4'-8'):	MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37	



JET PROBE LOG						
PROJECT: BROWARD	COUNTY BA IV	-	JET PROBE: JP96 - 18			
COORDINATES:	DATE: JUNE 2	WAT	ER DEPTH: 37.0 Ft. NGVD			
N = 695789	START TIME:	1421		ТОР	DIVER : TC	
E = 802420	END TIME:	1425		вот	TOM DIVER : DB	
LENGTH OF PVC PIPE	: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPTI	ł: 8.5'	37.0'	воттом			
JET PUMP TYPE: BRIC STRATTON GAL / HR :	5.0 HP		1 _	-		
DIAMETER OF PIPE:	1.5"		3	2		
SUPPORT VESSEL: CF	PE II		4 _		sand/shell hash	
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTEI			5 _	7		
WEATHER:			6 _	7 7 7		
WIND			_	Ω	CORAL FRAGMENTS LAYER	
DIR.: SE SPEED: 5-10 KT		45.5'	8 _		Sand / Shell Hash	
_WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT.			-	XX XX	ROCK	
CURRENT DIR.: NORTH			11 _	-		
SPEED: LIGHT			13			
LEGENI)		14	-		
			15	-		
SAND	SHELL HASH		16	-		
0	' 1		17	-		
SHELL FRAG.	ROCK FRAG.		18	-		
			19			
CORAL FRAG. ΩΩΩ	RUBBLE = =		20			
ΩΩ	= =		22	4		
ROCK XXX			23			
XX		_	24	1	DRAWS DV	
TURBIDIT TOP (0'-4'):	MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM NO: 5350 37	

COASTAL PLANNING & ENGINEERING, INC.



JET PROBE LOG							
PROJECT: BROWARD COUNTY BA V							
COORDINATES:	DATE: JUNE 2	27, 1996			ER DEPTH: 70.0 Ft. NGVD		
N = 682371	START TIME:	1405		TOP	DIVER: SM		
E = 802721	END TIME:	1410	<u> </u>	BOT	TOM DIVER : JA		
LENGTH OF PVC PIF	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEP		70.0'	воттом				
JET PUMP TYPE: BR STRATTO			1	2			
GAL / HR							
DIAMETER OF PIPE	: 1.5*		2 _				
SUPPORT VESSEL:	CPE II		3 -	2			
POSITIONING: DIFF	ERENTIAL GPS		-	7.			
USCG BEACON NAVIGATION SYST	EM ; "HYPACK	<u>.</u>	5 -				
WEATHER:			6 .				
WIND			7 -	ને ૄૈ	SAND / SHELL HASH		
DIR.: EAST			8 .	_ -	Grave / Street IPGH		
SPEED: 5 - 10 K	Т		9	٨	SHELL FRAGMENTS LAYER		
_WAYES			'	7-			
DIR.: EAST HEIGHT: 1-2 FT	•		10	⊣ૣ૿			
indicini. 1-2 i i	•		11				
CURRENT DIR.: NORTH	ī		12	1			
SPEED: LIGHT				-			
I ECEN	~	1	13				
LEGEN	D		15	- ~ ~ ~			
SAND	SHELL HASH	86.0'	16	7-			
	~ ~		17	XX	ROCK		
SHELL FRAG.	ROCK FRAG.		18	_			
^ ^ ^	6 6		19	4			
aanu = : a			20	4			
Ω Ω Ω Ω Ω	RUBBLE		21	4			
	<u> </u>		22	-			
ROCK			23	4			
XXX XX			24	4			
TURBIDI		1			DRAWN BY : MDA		
TOP (0' - 8') BOTTOM (8' - 16')	: MODERATE : HIGH				CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA V							
N = 683663	DATE: JUNE 2 START TIME:	1328		ТОР	TER DEPTH: 69.5 Ft. NGVD DIVER: SM		
	END TIME:		DEDTU		TOM DIVER :JA		
LENGTH OF PVC PIPE PENETRATION DEPTH		(- FT.) 69.5'	DEPTH		DESCRIPTION		
JET PUMP TYPE: BRIG STRATTON GAL / HR :	5.0 HP	09.5	1 _	7 7 7			
DIAMETER OF PIPE:			3 _	7 7 2			
SUPPORT VESSEL: CI POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE	RENTIAL GPS		5 _				
WEATHER: WIND DIR.: EAST SPEED: 5-10 KT			7 _	•	SHELL FRAGMENTS		
WAVES DIR.: EAST HEIGHT: 1 - 2 FT. CURRENT DIR.: NORTH SPEED: LIGHT			10 11 12 13	* * ? ? <i>?</i>	SAND / SHELL HASH SHELL FRAGMENTS		
LEGEND			14				
SAND	SHELL HASH		15 16 17	7.7			
SHELL FRAG.	ROCK FRAG.	89.5'_	18 19 20	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
CORAL FRAG. ΩΩΩΩ ΩΩΩ	RUBBLE = = =		21 22				
XXX XX			23				
TURBIDIT TOP (0'-10'): MC BOTTOM (10'-20')	DERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.



JET PROBE LOG							
PROJECT: BROWARD	COUNTY BA		JET PROBE: JP96 - 23				
COORDINATES:	DATE: JUNE 2	28, 1996		WAT	ER DEPTH: 38.0 Ft. NGVD		
N = 678462	START TIME:	1207		TOP I	DIVER : JN		
E = 800953	END TIME:	1211	Γ	вотт	OM DIVER :DB		
LENGTH OF PVC PIPI	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	H: 15.0'	38.0'	воттом				
JET PUMP TYPE: BRI							
STRATTON GAL / HR :			1 -				
DIAMETER OF PIPE:	1.5"		2 _				
SUPPORT VESSEL: C	PE II		3 _				
POSITIONING: DIFFI	ERENTIAL GPS	3	5		SAND		
NAVIGATION SYSTE	M; "HYPACK	1					
WEATHER:			6				
WIND			7 .	-			
DIR.: SW			8	-			
SPEED: 0 - 5 KT			9				
_WAVES							
DIR.: VAR. HEIGHT: 1-2 FT.			10	-			
GUDDENE.			11	-			
CURRENT DIR.: NORTH			12	_			
SPEED: STRONG			1				
V FORD			13				
LEGENI)	E2 01	14				
SAND	SHELL HASH	53.0'_	- 15	XX	ROCK		
	~ ~ ~		16	_ XX			
			17	+			
SHELL FRAG.	ROCK FRAG.		18	-			
_ ^ ^			19	-			
CORAL FRAG.	RUBBLE		20	4			
ΩΩΩ	= =		21	+			
			22	+			
ROCK			23	+			
xx			24	-			
TURBIDIT TOP (0' - 7.5' BOTTOM (7.5' - 15')): MODERAT				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA VI JET PROBE: JP96 - 24							
COORDINATES:	DATE: JUNE 2	8, 1996		WATI	ER DEPTH: 43.5 Ft. NGVD		
N = 677091	START TIME:	1140		TOP I	DIVER : JN		
E = 800804	END TIME:	1145		вотт	OM DIVER : DB		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	TH: 11.0'	43.5'	воттом				
JET PUMP TYPE: BR			1 _				
GAL / HR				-			
DIAMETER OF PIPE:	1.5"		2 _		SAND (SURIL MASI		
SUPPORT VESSEL: O	CPE II		3 -		sand/shell hash		
POSITIONING: DIFF USCG BEACON	ERENTIAL GPS	3	5	-			
NAVIGATION SYSTI	EM; "HYPACK	<u>.</u>	6	=	CORAL FRAGMENTS LAYER		
WEATHER:			7	-			
_WIND				-			
DIR.: SW SPEED: 0-5 KT			8	- 2	SAND/SHELL HASH		
0. 20D. 0 J.K.			9				
<u>WAVES</u> DIR.: VAR.			10	2			
HEIGHT: 1-2 FT.				-			
CURRENT		54.5'	- 11	- XX	ROCK		
DIR.: NORTH			12	_ XX			
SPEED: STRONG	į		13	╛╽			
LEGEN	D		14				
			15	_			
SAND	SHELL HASH		16	-			
			17	+			
SHELL FRAG.	ROCK FRAG.		18	-			
^ ^	@		19	-			
CORAL FRAG.	RUBBLE		20				
ΩΩΩ	= =		21	7			
ROCK			22				
XXX			24				
TURBIDI	TY ·	\dashv			DRAWN BY : MDA		
TOP (0'-5.5' BOTTOM (5.5' - 11'): MODERATE				CHECK BY : JLA COMM. NO : 5350.37		



JET PROBE LOG						
PROJECT: BROWARD COUNTY BA VII						
	DATE: JUNE 2 START TIME:	•			TER DEPTH: 59.5 Ft. NGVD	
E = 802254	END TIME:	0911		вот	TOM DIVER : DB	
LENGTH OF PVC PIPE		ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPTI		59.5'	воттом			
JET PUMP TYPE: BRIG STRATTON GAL / HR :	5.0 HP		1 _	2 2 2		
DIAMETER OF PIPE:	1.5"		3 _	-		
SUPPORT VESSEL: CI			4 _	2		
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTEM			5 _	7 7 7		
WEATHER:			6 _	1 1	Sand/Shell hash	
WIND DIR.: VAR. SPEED: 0 - 5 KT			8 _	7 7 7 7		
WAVES DIR.: VAR. HEIGHT: 1-2 FT.			10 _	~ ~ ~ ~		
CURRENT DIR.: SOUTH SPEED: LIGHT			11 _	-		
LEGEND			14 _	= = =	RUBBLE LAYER	
SAND	SHELL HASH	74.5'	15 _	XX XX	ROCK	
			17 _			
SHELL FRAG.	ROCK FRAG.		18 _	1		
			19 _			
CORAL FRAG. ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	RUBBLE		21 _	-		
ROCK	_		22 _			
XXX			24 _			
TURBIDITY TOP (0'-8'):1 BOTTOM (8'-15'):1	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY BA VII JET PROBE: JP96 - 67							
	DATE: JUNE 2 START TIME:	•			ER DEPTH: 61.5 Ft. NGVD		
E = 802888	END TIME:	1002		BOTT	OM DIVER : DB		
LENGTH OF PVC PIPI	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	H: 18.0'	61.5'	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR	N 5.0 HP : 8460	01.3	1 _				
DIAMETER OF PIPE: SUPPORT VESSEL: C			3 _	7 7	Sand / Shell hash		
POSITIONING: DIFFI USCG BEACON NAVIGATION SYSTE	ERENTIAL GPS		5 _	2 2 2 2			
WEATHER:			7	Ω	CORAL FRAGMENTS LAYER		
WIND DIR.: VAR. SPEED: 0-5 KT WAYES DIR.: VAR. HEIGHT: 1-2 FT. CURRENT DIR.: SOUTH SPEED: LIGHT			8 9 10 11 12 13	1111	SAND/SHELL HASH		
LEGEN	D		14	C C	CORAL FRAGMENTS LAYER		
SAND SHELL FRAG.	SHELL HASH	79.5'_	15 16 17 	1 1 1 1 1	SAND / SHELL HASH		
^^^	@ @ @		19	_xx	ROCK		
CORAL FRAG. ΩΩΩ ΩΩ	RUBBLE		20 21 22				
ROCK XXX XX			23	7			
TURBIDI TOP (0' - 9'): BOTTOM (9' - 18')	LOW				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD CO	OUNTY BA V	II		JET PROBE: JP96 - 69		
N = 675347 S	ATE: JUNE 2 TART TIME:	1048		TOP	ER DEPTH: 72.0 Ft. NGVD DIVER: JN TOM DIVER: DB	
•				ВОТ		
LENGTH OF PVC PIPE: PENETRATION DEPTH:		(- FT.)	ВОТТОМ		DESCRIPTION	
JET PUMP TYPE: BRIGG STRATTON 5 GAL / HR :	5.0 HP	72.5	1 _	2 2 2		
DIAMETER OF PIPE: SUPPORT VESSEL: CPE			3 _	7 7		
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM	ENTIAL GPS		5 _	~ ~ ~ ~	SHELL FRAGMENTS	
WEATHER: WIND DIR.: VAR.			7 _	7 7 7 7		
SPEED: 0 - 5 KT WAYES DIR.: VAR. HEIGHT: 1 - 2 FT. CURRENT DIR.: SOUTH SPEED: LIGHT			9 _ 10 _ 11 _ 12 _ 13	7 7 7 7 7	SAND / SHELL HASH	
LEGEND	SHELL HASH	89.0'	15 _	7 7 7		
SHELL FRAG.	ROCK FRAG.		18	XX	ROCK	
CORAL FRAG. ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	RUBBLE		21 22			
XXX XX			23	_		
TURBIDITY TOP (0'-9'): BOTTOM (9'-17'): M	LOW				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD	COUNTY BA V	/IL			JET PROBE: JP96 - 68	
COORDINATES:	DATE: JUNE 2	8, 1996		WAT	ER DEPTH: 69.5 Ft. NGVD	
N = 676280	START TIME:	1031		TOP	DIVER :JN	
E = 802363	END TIME:	1037		вотт	TOM DIVER : DB	
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPT	TH: 21.0'+	69.5'	воттом			
JET PUMP TYPE: BRI STRATTON	N 5.0 HP		1 _	7		
GAL / HR	: 8460		2 _			
DIAMETER OF PIPE:			3 _	2		
SUPPORT VESSEL: C	CPE II		4 _			
POSITIONING: DIFFI USCG BEACON	ERENTIAL GPS		5 _			
NAVIGATION SYSTE	EM; "HYPACK	4	6	*	SHELL FRAGMENTS	
WEATHER:			7	72		
WIND				7.		
DIR.: VAR. SPEED: 0-5 KT			8 -	- 2		
<u>WAVES</u> DIR.: VAR.			10	10000000		
HEIGHT: 1-2 FT.	•		11	_[~]	SAND / SHELL HASH	
CURRENT DIR.: SOUTH			12	7		
SPEED: LIGHT			13	-		
LEGEN	D		14	^	SHELL FRAGMENTS	
			15	_ ~ _ ~		
SAND	SHELL HASH		16	_ ~		
	~ ~		17	_ ~ _ ~		
SHELL FRAG.	ROCK FRAG.		18	10000		
			19	7.2		
CORAL FRAG.	RUBBLE		20	- 2		
ΩΩΩ ΩΩ	= =	90.5'_	_ 21	_		
			22	7		
ROCK XXX			23			
XX			24	1		
TURBIDI' TOP (0' - 10') BOTTOM (10' - 21')	: LOW				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

SUB-APPENDIX B-1h OUTSIDE BORROW AREAS

JET PROBE LOG						
PROJECT: BROWARD COUNTY	_		JET PROBE: JP96 - 7_			
	JNE 26, 1996 TME: 1740 1E: 1743		WATER DEPTH: 28.0 Ft. NGVD TOP DIVER: DB BOTTOM DIVER: SM			
LENGTH OF PVC PIPE: 20.0'		DEPTH	DESCRIPTION			
PENETRATION DEPTH: 16.0'		воттом	17777			
JET PUMP TYPE: BRIGGS & STRATTON 5.0 HP GAL / HR: 8460 DIAMETER OF PIPE: 1.5"		2 _	SAND/SHELL HASH			
SUPPORT VESSEL: CPE II		3 -	Ω CORAL FRAGMENTS LAYER			
POSITIONING: DIFFERENTIAL USCG BEACON NAVIGATION SYSTEM; "HYPA WEATHER: WIND DIR.: SW SPEED: 5-10 KT WAYES DIR.: SOUTH HEIGHT: 1-2 FT. CURRENT DIR.: SOUTH SPEED: LIGHT LEGEND SAND SHELL H.	ACK*	5 _ 6 _ 7 _ 8 _ 9 _ 10 _ 11 _ 12 _ 13 _ 14 _ 15 _ 16 _ 16 _ 16 _ 16 _ 16 _ 16 _ 16	SAND/SHELL HASH			
SHELL FRAG. ROCK FR	•	17				
CORAL FRAG. Ω Ω Ω Ω Ω ROCK		20 21 22 23				
XXX		24				
TURBIDITY: TOP (0'-8'): MODERAT BOTTOM (8'-16'): MODERAT			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD (COUNTY			_	JET PROBE: JP96 - 9	
COORDINATES: DATE: JUNE 26, 1996					ER DEPTH: 36.0 Ft. NGVD	
N = 714265	START TIME:	1810		ТОР	DIVER : DB	
E = 804578	END TIME:	1814		вот	TOM DIVER : SM	
LENGTH OF PVC PIPE	: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPTH	ł: 6.0'	36.0'	воттом			
JET PUMP TYPE: BRIC STRATTON GAL / HR :	5.0 HP		1 _			
DIAMETER OF PIPE:			2 _			
SUPPORT VESSEL: CF	PE II		3 -		SAND	
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTEM			5 _		2 ml attempt refusal	
WEATHER:		42.0'	6 _	XX	ROCK	
WIND DIR.: SW SPEED: 5-10 KT			8 _	_XX	1 st AND 3 rd ATTEMPT REFUSAL AT 6.0°	
WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT.			10 _			
CURRENT DIR.: SOUTH SPEED: LIGHT			11 - 12 - 13			
LEGENI)		14			
			15	_		
SAND	SHELL HASH		16	-		
			17			
SHELL FRAG.	ROCK FRAG.		18			
			20	_		
CORAL FRAG. Ω Ω Ω Ω Ω	RUBBLE		21	+		
ROCK			22 23	7		
XXX			24			
TURBIDIT TOP (0'-3'): BOTTOM (3'-6'):	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD C	COUNTY			_	JET PROBE: JP96 - 13	
	DATE: JUNE 2 START TIME:	Ť			ER DEPTH: 25.0 Ft. NGVD	
E = 802909	END TIME:	1546	r	вот	TOM DIVER : TC	
LENGTH OF PVC PIPE:	: 20.0'	ELEV.	DEPTH		DESCRIPTION	
PENETRATION DEPTH		25.0'	воттом			
JET PUMP TYPE: BRIG STRATTON GAL / HR : DIAMETER OF PIPE: SUPPORT VESSEL: CP	5.0 HP 8460 1.5"	29.0'	1 2 3	2 2 2 2 2 2 2 2	SAND/SHELL HASH	
POSITIONING: DIFFER USCG BEACON NAVIGATION SYSTEM		29.0	5 _	XX XX	ROCK	
WEATHER:			7			
WIND DIR.: SE SPEED: 5 - 10 KT			8 _	_		
WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			10			
CURRENT DIR.: NORTH SPEED: MODERATE	'E		11 -			
LEGEND)		14			
			15	_		
SAND	SHELL HASH		16			
SHELL FRAG.	ROCK FRAG.		17			
A A A	@ @ @		19	7		
CORAL FRAG. Ω Ω	RUBBLE		20			
ΩΩ	_ = =		22	-		
ROCK XXX XX]		23			
TURBIDIT TOP (0'-2'): BOTTOM (2'-4'):	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 19							
N = 694761 START T	UNE 28, 1996 TME: 1403		WATER DEPTH: 35.0 Ft. NGVD	,			
$E = 802075 \qquad END TIM$			BOTTOM DIVER : DB	ᅱ			
LENGTH OF PVC PIPE: 20.0' PENETRATION DEPTH: 1.5'	ELEV.	DEPTH	DESCRIPTION	_			
JET PUMP TYPE: BRIGGS & STRATTON 5.0 HP	35.0'	ВОТТОМ	SAND / SHELL HASH	-			
GAL / HR: 8460	36.5'	1.5 _	XX ROCK	_			
DIAMETER OF PIPE: 1.5" SUPPORT VESSEL: CPE II		3 _	1 st AND 2 nd ATTEMPTS REFUSAL AT 1.5	.0			
POSITIONING: DIFFERENTIAL USCG BEACON NAVIGATION SYSTEM; "HYPA		5 _	-				
WEATHER:		6 _					
WIND DIR.: SE SPEED: 5-10 KT		8 -					
WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT.		10					
CURRENT DIR.: NORTH SPEED: LIGHT		11 _	.]				
LEGEND		13					
SAND SHELL H.	ASH	15	; _				
~~~		16					
SHELL FRAG. ROCK FF	wg.	17					
^ ^ ^		19	, _				
CORAL FRAG. RUBBL	<u>.e</u>	20	0 —				
ΩΩΩ ==	<u>-</u>	21					
ROCK		23	3 📙				
_^^^		24	4 _				
TURBIDITY: TOP (0'-1.5'): MODER BOTTOM ( ): NA	ATE		DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37				

COASTAL PLANNING & ENGINEERING, INC.

	JET PR	OB	E LO	G	
PROJECT: BROWARD (	COUNTY			-	JET PROBE: JP96 - 6
COORDINATES:	DATE: JUNE 2	5, 1996		WAT	TER DEPTH: 35.5 Ft. NGVD
N = 717566	START TIME:	1725		TOP	DIVER : DB
E = 804765	END TIME:	1729	Ι	вот	TOM DIVER : SM
LENGTH OF PVC PIPE	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION
PENETRATION DEPTH	I: 6.0'	35.5'	воттом		
JET PUMP TYPE: BRIC STRATTON GAL / HR :	5.0 HP		1 _	-	
DIAMETER OF PIPE:			2 _	-	1 st attempt repusal
SUPPORT VESSEL: CF	EII		3 -	~	SAND / SHELL HASH
POSITIONING: DIFFE	RENTIAL GPS		5 _	1 1	2 ad ATTEMPT REFUSAL
NAVIGATION SYSTEM	M; "HYPACK"	41.5'	6	2	
WEATHER:			7	XX XX	ROCK
WIND DIR.: SE SPEED: 10 - 15 KT			8 _		3 rd AND 4 th ATTEMPTS REFUSAL AT 6.0°
WAVES DIR.: SE HEIGHT: 2-3 FT.			9 -	-	
CURRENT			11 .	-	
DIR.: NORTH SPEED: LIGHT			12		
LEGENI	)		14	_	
			15		
SAND	SHELL HASH		16	-	
			17	$\dashv$	
SHELL FRAG.	ROCK FRAG.		18		
	<u> </u>		19		
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$	RUBBLE		20		
ΩΩ	_ = =		22	-	
ROCK XXX XX			23	7	
TURBIDIT TOP (0'-3'):L0		1			DRAWN BY : MDA
BOTTOM (3'- 6') : MO					CHECK BY: JLA COMM. NO: 5350.37

	JET PR	OB	E LO	G	
PROJECT: BROWARD C	COUNTY			_	JET PROBE: JP96 - 8
COORDINATES:	DATE: JUNE 2	6, 1996		WAT	ER DEPTH: 35.0 Ft. NGVD
N = 715092	START TIME:	1753		ТОР	DIVER : DB
E = 803893	END TIME:	1758		вот	TOM DIVER : SM
LENGTH OF PVC PIPE	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION
PENETRATION DEPTH	i: 20.0'	35.0	воттом		
JET PUMP TYPE: BRIG STRATTON	5.0 HP		1 _	-	
GAL/HR:	8460		2 _	<b>[</b>	2 nd ATTEMPT REFUSAL
DIAMETER OF PIPE:			3 _	]~	SAND/SHELL HASH
SUPPORT VESSEL: CP			4 _	]	
POSITIONING: DIFFEI USCG BEACON NAVIGATION SYSTEM			5 _	2	1 st attempt refusal
WEATHER:			6 _	Ω	CORAL FRAGMENTS LAYER
WIND			7 -	<u>.</u>	
DIR.: SW SPEED: 5-10 KT			8 _	111	
WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			10	] ~ .   ~ .	
CURRENT			11	100000	
DIR.: SOUTH SPEED: LIGHT			12	7.1.2	
LEGEND	)		13	7-	SAND / SHELL HASH
			15	72	
SAND	SHELL HASH		16	]~ _~ _~	
			17		
SHELL FRAG.	ROCK FRAG.		18	- ~ ~	
		EE 0'	19	7-	
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE	55.0'_	20	XX	ROCK
ΩΩ	= =		22		
ROCK			23		
XXX			24	-	
TURBIDIT	Y: MODERATE				DRAWN BY : MDA CHECK BY : JLA
BOTTOM (10' - 20')		1			COMM NO : 5350 37

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD C	OUNTY			_	JET PROBE: JP96 - 20	
COORDINATES:	DATE: JUNE 2	8, 1996		WAT	ER DEPTH: 41.0 Ft. NGVD	
N = 692848	START TIME:	1338		TOP	DIVER : TC	
E = 802520	END TIME:	1342		ВОТ	TOM DIVER : DB	
LENGTH OF PVC PIPE:	20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPTH	: 16.0'	41.0'	воттом	-		
JET PUMP TYPE: BRIG			1	2		
STRATTON : GAL / HR :			' -			
			2 _	-		
DIAMETER OF PIPE:	1.5"		3 _		SAND / SHELL HASH	
SUPPORT VESSEL: CP	E II			2		
POSITIONING: DIFFER	ENTIAL GPS		4 -	13		
USCG BEACON NAVIGATION SYSTEM	. "IIVD.CV"		5 _	-[2]		
NAVIGATION STSTEM	I; HIPACK	1	6	-		
WEATHER:			7	Ω	CORAL FRAGMENTS LAYER	
_WIND			'			
DIR.: SE SPEED: 5 - 10 KT			8	- 2		
SI EED. 3 - 10 KI			9	_ ~		
<u>WAVES</u> DIR.: VAR.			10	2		
HEIGHT: 1-2 FT.				~		
CURRENT			11	ને ૄૈ	SAND / SHELL HASH	
DIR.: NORTH			12	1000000	3. 3. 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5	
SPEED: LIGHT			13	1		
LEGEND			14	7-		
			15	_ ~		
SAND	SHELL HASH	57.0'_	16			
	_~~		17	_xx _xx	ROCK	
SHELL FRAG.	ROCK FRAG.		18	1		
	@		19	-		
CORAL FRAG.	RUBBLE		20	-		
ΩΩΩ	= = =		21	4		
ΩΩ	= =		22	1		
ROCK			23			
XXX			24	7		
TURBIDIT		-			DRAWN BY : MDA	
TOP (0'-8'): BOTTOM (8'-16'):					CHECK BY: JLA COMM. NO: 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

	JET PR	OB	E LO	G		
PROJECT: BROWARD	COUNTY		JET PROBE: JP96 - 21			
COORDINATES: N = 679826	DATE: JUNE 2 START TIME:				TER DEPTH: 36.0 Ft. NGVD	
E = 800644	END TIME:	1310		вот	TOM DIVER : DB	
LENGTH OF PVC PI		ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEP		36.0'	воттом			
JET PUMP TYPE: BF STRATTO GAL / HR	N 5.0 HP		1 _	1 1		
DIAMETER OF PIPE	: 1.5"		3	-		
SUPPORT VESSEL: POSITIONING: DIFF		S	4 -	7 7 7		
USCG BEACON NAVIGATION SYST			5			
WEATHER:			7	-	SAND/SHELL HASH	
<u>WIND</u> DIR.: VAR. SPEED: 0 - 5 KT			8	7 7 7		
_WAVES DIR.: VAR. HEIGHT: 1-2 FT	·.		10	~ ~		
CURRENT DIR.: NORTH SPEED: MODERA		49.0'_	12	7 7 7		
LEGEN	D		14	_XX XX	ROCK	
SAND	SHELL HASH		15	-		
SHELL FRAG.	ROCK FRAG.		17			
^ ^ ^	@ @ @		19			
coral frag. $\Omega$ $\Omega$	RUBBLE		20	7		
ΩΩ	= =		22			
ROCK	_		23	+		
XX			24	-		
TURBID: TOP (0' - 6.5 BOTTOM (6.5' - 13	'):LOW	E			DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37	

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 25							
COORDINATES:	DATE: JUNE 2	WAT	TER DEPTH: 68.2 Ft. NGVD				
N = 723029	START TIME:	1250		TOP	DIVER : SM		
E = 807830	END TIME:	1254	<del></del>	вот	TOM DIVER : JA		
LENGTH OF PVC PIPI	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	H: +21.0'	68.2'	воттом				
JET PUMP TYPE: BRI STRATTON			1 _	2			
GAL / HR :							
DIAMETER OF PIPE:	1.5"		3	~			
SUPPORT VESSEL: C	PE II		_				
POSITIONING: DIFFE	ERENTIAL GPS	3	5 _				
NAVIGATION SYSTE	M; "HYPACK			-			
WEATHER:			7	-			
_WIND				~			
DIR.: SE SPEED: 5 - 10 KT			8 .	- 2	SAND/SHELL HASH		
			9 .	10000000			
<u>WAVES</u> DIR.: SE			10	~			
HEIGHT: 2-3 FT.				~			
CURRENT			11.	-  ~	SHELL FRAGMENTS LAYER		
DIR.: NORTH SPEED: ODERAT	<del>c</del>		12	- 🏩			
SPEED: ODERAT	C.		13	10000			
LEGEND	)		14	0.0000000			
			15				
SAND	SHELL HASH		16	200000			
300000000000000000000000000000000000000			17	- <u>0</u>	CORAL FRAGMENTS LAYER		
SHELL PRAG.	ROCK FRAG.		18	_			
_ ^ ^	<u> </u>		19	4	SAND		
CORAL FRAG.	RUBBLE		20	+			
ΩΩΩ ΩΩ	= = =	89.2'_	_ 21	T			
			22	1			
XXX	]		23				
`~	<b></b>	4	24	-			
TURBIDIT TOP (0' - 11.5' BOTTOM (11.5' - 21	): MODERAT	TE			DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

JET PROBE LOG							
PROJECT: BROWARD COUNTY							
COORDINATES: N = 721311	START TIME:	1219		тор	TER DEPTH: 67.0 Ft. NGVD DIVER: SM		
E = 806641 LENGTH OF PVC P			DEPTH	BOI	TOM DIVER : JA  DESCRIPTION		
PENETRATION DE JET PUMP TYPE: I STRATT	PTH: +21.0' BRIGGS & ON 5.0 HP R: 8460	(- FT.) 67.0'	BOTTOM  1 _ 2 _		DESCRIPTION		
SUPPORT VESSEL  POSITIONING: DII  USCG BEACON  NAVIGATION SYS  WEATHER:	FERENTIAL GPS		3 -4 - 5 - 6 -	7 7 7 7 7	SAND / SHELL HASH		
WEATHER:  WIND DIR.: NW SPEED: 0-5 K  WAVES DIR.: SE HEIGHT: 2-3 F			7 - 8 - 9 - 10 -	1 G 1 G 1 G 1 G	SAND / SHELL HASH WITH CORAL FRAGMENTS LAYERS		
CURRENT DIR.: NORT SPEED: ODER.  LEGE	ATE		12 .				
SAND  SHELL FRAG.  A A A	SHELL HASH		15 16 17 18	- - -	SAND		
CORAL FRAG.  \[ \Omega \Omega \Omega \Omega \\ \Omega \Omega \Omega \\ \Omega \Omega \\ \Omega \Omega \\ \		88.0'	20 21 22 23	XX	ROCK		
TURBII TOP (0'-11' BOTTOM (11'-21	DITY:		24	-	DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 2							
COORDINATES:	DATE: JUNE 2	25, 1996		WAT	ER DEPTH: 72.0 Ft. NGVD		
N = 719537	START TIME:	1125		TOP	DIVER : SM		
E = 807143	END TIME:	1130		вот	TOM DIVER : MA		
LENGTH OF PVC PIPI	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	H: 7.5'	72.0'	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR :	5.0 HP		1 _	7 7 7			
DIAMETER OF PIPE:	1.5"		3	-			
SUPPORT VESSEL: C			4		SAND / SHELL HASH		
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE			5 _	7 7 7 7 7			
WEATHER:			7	-   -	RUBBLE LAYER		
WIND DIR.: NW SPEED: 0 - 5 KT		79.5'	7.5	= XX XX	ROCK		
WAVES DIR.: SE HEIGHT: 1-2 FT.  CURRENT DIR.: NORTH SPEED: STRONG			9 10 11 12				
LEGENI	•		14	-			
SAND	SHELL HASH		15 16 17	-			
SHELL FRAG.	ROCK FRAG.		18	-			
_^	œ		19				
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE		21				
00	= =		22	+			
ROCK  XXX  XX	]		23				
TURBIDIT TOP (0'-4') BOTTOM (4' - 7.5')	: MODERATE	3			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

JET PROBE LOG								
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 31								
	DATE: JUNE 2 START TIME:				ER DEPTH: 73.0 Ft. NGVD			
	END TIME:	1447		вот	TOM DIVER : SM			
LENGTH OF PVC PIP			DEPTH	П	DESCRIPTION			
PENETRATION DEPT	H: 17.0'	73.0'	DOM:					
JET PUMP TYPE: BRI STRATTON GAL / HR :	5.0 HP	73.0	1 _	2 2 2				
DIAMETER OF PIPE:	1.5"		3 _	2 1 1				
SUPPORT VESSEL: C	PE II		4 _	2	SAND / SHELL HASH			
POSITIONING: DIFFI USCG BEACON NAVIGATION SYSTE			5 _	7 7				
WEATHER:			7					
WIND				Ω	CORAL FRAGMENTS LAYER			
DIR.: SE SPEED: 5 - 10 KT			8 .	- 2				
WAVES DIR.: SE HEIGHT: 2-3 FT.				7 7 7				
CURRENT DIR.: NORTH SPEED: STRONG	and any Property and the second se		12	- 2	SAND / SHELL HASH			
LEGENI	)		14	-				
SAND	SHELL HASH		15	~				
	~ ~	90.0'_	17	~				
SHELL FRAG.	ROCK FRAG.		18	_XX	ROCK			
_^^^			19	-				
CORAL FRAG.	RUBBLE		20	4				
ΩΩΩ	= =		21					
ROCK			22	7				
XXX			24					
TURBIDI' TOP (0' - 8'): MO BOTTOM (8' - 17')	D. / HIGH				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 33							
COORDINATES: N = 717500 E = 806281	DATE: JUNE 2 START TIME: END TIME:	847		ТОР	TER DEPTH: 73.0 Ft. NGVD  DIVER: DB  TOM DIVER: JA		
LENGTH OF PVC PIP		ELEV.	DEPTH		DESCRIPTION		
PENETRATION DEPT  JET PUMP TYPE: BR STRATTON GAL / HR  DIAMETER OF PIPE:  SUPPORT VESSEL: C  POSITIONING: DIFF USCG BEACON NAVIGATION SYSTI  WEATHER:  WIND DIR.: SW SPEED: 5-10 KT  WAVES DIR.: SOUTH HEIGHT: 1-2 FT.	IGGS & N 5.0 HP : 8460 : 1.5"  CPE II  ERENTIAL GPS  EM; "HYPACK		BOTTOM  1 _ 2 _ 3 _ 4 _ 5 _ 6 _ 7 _ 8 _ 9 _ 10 _	11111111	SAND SAND/SHELL HASH		
CURRENT DIR.: SOUTH SPEED: LIGHT LEGENI		85.0'		XX XX	ROCK		
SHELL FRAG.	ROCK FRAG.		16	-			
CORAL FRAG  \[ \begin{picture} \Omega \Omega \Omega \\ \Omega \omega \omega \end{picture} \]  \[ \text{Rock} \\ \text{X X X} \\ \text{X X X} \\ \text{X X X} \\ \text{X X X X} \\ X X X X X X X X X X X X X X X X X X X	RUBBLE		21 22 23 24				
TURBIDI' TOP (0' - 6') BOTTOM (6' - 12')	: MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

JET PROBE LOG					
PROJECT: BROWARD	COUNTY				JET PROBE: JP96 - 35
COORDINATES:	DATE: JUNE	26, 1996		WA'	TER DEPTH: 72.5 Ft. NGVD
N = 715774	START TIME:	1002		TOP	DIVER : DB
E = 806413	END TIME:	1006		вот	TOM DIVER :JA
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION
PENETRATION DEP	ГН: + 20'	72.5'	воттом		
JET PUMP TYPE: BR				-	
STRATTOI GAL / HR			1 _	1	
DIAMETER OF PIPE	1.5*		2 _	-	Sand / Shell hash
SUPPORT VESSEL: (	CPE II		3 _		
POSITIONING: DIFF USCG BEACON	ERENTIAL GPS	S	5 _	~	
NAVIGATION SYST	EM; "HYPACK			٨	
WEATHER:			6 _	^	
WIND			7 -	- ~	
DIR.: SE SPEED: 5 - 10 KT	•		8 -	- 7	
SPEED: 3-10 K	•		9		
<u>WAVES</u> DIR.: SOUTH			10	1	
HEIGHT: 1-2 FT.				^	
CURRENT			11.	- ~	
DIR.: SOUTH SPEED: LIGHT			12	- 7	1
SPEED: LIGHT	v. <del></del>	4	13	- ~	SHELL FRAGMENTS LATERS
LEGEN	D		14	- ~	
			15	-  ~	
SAND	SHELL HASH		16		
			17		
SHELL FRAG.	ROCK FRAG.		18	- ~	
^ ^			19	- ~	
CORAL FRAG.	RUBBLE	92.5'_	_ 20	- -	
ΩΩΩ	= = =		21	+	
·			22	+	
ROCK	7		23	1	
XX			24	-	
TURBIDI TOP (0' - 10' BOTTOM (10' - 20'	): LOW				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD	PROJECT: BROWARD COUNTY							
N = 714303 E = 806151	DATE: JUNE 2 START TIME: END TIME:	1057 1102		ТОР	TER DEPTH: 76.5 Ft. NGVD DIVER: DB TOM DIVER: JA			
LENGTH OF PVC PIPE PENETRATION DEPT		ELEV. (- FT.) 76.5'	DEPTH		DESCRIPTION			
JET PUMP TYPE: BRIGHT STRATTON GAL / HR:  DIAMETER OF PIPE:  SUPPORT VESSEL: C.  POSITIONING: DIFFE USCG BEACON	5.0 HP 8460 1.5"		1 _ 2 _ 3 _ 4 _	2 2 2	SAND / SHELL HASH			
WEATHER:  WIND DIR.: SW SPEED: 5-10 KT  WAVES DIR.: VAR. HEIGHT: 1-2 FT.		86.5'	6 _ 7 _ 8 _ 9 _	G ~ G ~ G ~ G	SAND / SHELL HASH WITH CORAL FRAGMENTS LAYERS ROCK			
CURRENT DIR.: SOUTH SPEED: LIGHT LEGEND			12	-				
SAND	SHELL HASH		14 15 16	-				
SHELL FRAG.	ROCK FRAG.		18					
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	RUBBLE = = =		20 21 22	-				
ROCK  XXX  XX			23					
TURBIDIT TOP (0'-5'): BOTTOM (5'-10'):	LOW	1			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

JET PROBE LOG								
PROJECT: BROWARD	PROJECT: BROWARD COUNTYJET PROBE: JP96 - 39							
N = 712370	DATE: JUNE 2 START TIME:	1204			TER DEPTH: 77.0 Ft. NGVD DIVER: DB			
E = 805923	END TIME:	1210		BOT	TOM DIVER : JA			
LENGTH OF PVC PIP		ELEV. (- FT.)	DEPTH		DESCRIPTION			
PENETRATION DEPT	TH: 18.0'	77.0°	воттом					
JET PUMP TYPE: BRI STRATTON GAL / HR	1 5.0 HP		1 _		SAND			
DIAMETER OF PIPE:	1.5"		3 _	^				
SUPPORT VESSEL: C	CPE II							
POSITIONING: DIFFI USCG BEACON NAVIGATION SYSTE			5 _	^ ^ ~				
WEATHER:			7		Sand / Shell hash with Shell fragments layers			
WIND DIR.: SW SPEED: 5-10 KT			8 _	^ ^	SHELL FRAGMENTS LATERS			
WAVES DIR.: SOUTH HEIGHT: 1-2 FT.			10	~ - ^ ^				
CURRENT DIR.: NORTH SPEED: LIGHT			ļ.	~ G ~				
LEGENI	)		1	_ က _ က				
			15	_ _ _	SAND / SHELL HASH WITH CORAL FRAGMENTS LAYERS			
SAND	SHELL HASH		16	-				
			17	Ω				
SHELL FRAG.	ROCK FRAG.	95.0'_	18	XX	1			
			20					
CORAL FRAG. Ω Ω Ω Ω Ω	RUBBLE		21	7				
				7				
XXX XX			23	7				
TURBIDI' TOP (0'-9'): BOTTOM (9'-18'):	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

JET PROBE LOG						
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 22						
	DATE: JUNE 2 START TIME:	•			ER DEPTH: 44.0 Ft. NGVD	
E = 801714	END TIME:	1247		вот	TOM DIVER : DB	
LENGTH OF PVC PIPE	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPT	H: +20.0'	44.0 '	воттом			
JET PUMP TYPE: BRIG STRATTON GAL / HR :	5.0 HP		1 _	1112		
DIAMETER OF PIPE:			3 _	2		
SUPPORT VESSEL: CI POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE	RENTIAL GPS	•	5 _	1 1 1		
WEATHER:			6 _	~		
WIND DIR.: SW SPEED: 0-5 KT			8 -			
<u>WAVES</u> DIR.: VAR. HEIGHT: 1-2 FT.			10	~ ~ ~	SAND/SHELL HASH	
CURRENT DIR.: NORTH SPEED: STRONG			12	7 7 7 7		
LEGEND	•		14	7 7 7		
SAND	SHELL HASH		16			
SHELL FRAG.	ROCK FRAG.		18	_		
	@	64.0'_		-		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	RUBBLE = = =		21	-		
'			22	7		
XXX XX			23			
TURBIDIT TOP (0' - 10'): M BOTTOM (10' - 20')	ODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

	JET PR	OB	E LO	G	
PROJECT: BROWARD	COUNTY			-	JET PROBE: JP96 - 26
COORDINATES:	DATE: JUNE 2	5, 1996		WAT	ER DEPTH: 63.0 Ft. NGVD
N = 722769	START TIME:	1330		TOP	DIVER : SM
E = 806656	END TIME:	1335		BOT	TOM DIVER : JA
LENGTH OF PVC PIP		ELEV. (- FT.)	DEPTH		DESCRIPTION
PENETRATION DEPT	H: 21.0	63.0'	воттом		
JET PUMP TYPE: BRI STRATTON	1 5.0 HP		1 _	1 1	
GAL / HR :	: 8460		2 _	2	
DIAMETER OF PIPE:	1.5"		3 _		
SUPPORT VESSEL: C	PE II		4		
POSITIONING: DIFFI	ERENTIAL GPS		5 _	2	
NAVIGATION SYSTE	M; "HYPACK	•	6	-	
WEATHER:			7		
_WIND			-		
DIR.: SE SPEED: 5-10 KT	•		8 _		
_WAVES			9 -	- 2	SAND / SHELL HASH
DIR.: SE HEIGHT: 2-3 FT.			10		
CURRENT			11.	- 2	
DIR.: NORTH	_		12	-	
SPEED: ODERAT	`E 		13		
LEGENI	)		14	- 2	
			15		
SAND	SHELL HASH		16		
	<u></u>		17	- 2	
SHELL FRAG.	ROCK FRAG.		18	-  ~	
^ ^			19	- <mark>  ~</mark> Ω	CORAL FRAGMENTS LAYER
CORAL FRAG.	RUBBLE		20	- <u>Ω</u> ~	SAND / SHELL HASH
ΩΩΩ ΩΩ	= =	84.0'_	_ 21		
			22	+	
ROCK XXX	٦		23	+	
L XX			24	-	
TURBIDIT TOP (0'-11'):	ΓY: MODERATE				DRAWN BY : MDA CHECK BY : JLA
ВОТТОМ (11'- 21') :		1	1	1	COMM. NO: 5350.37

JET PROBE LOG							
PROJECT: BROWARD	COUNTY		JET PROBE: JP96 - 28				
	DATE: JUNE 2 START TIME:				ER DEPTH: 70.0 Ft. NGVD		
E = 806380	END TIME:	1158		BOTT	OM DIVER : JA		
LENGTH OF PVC PIP		(- FT.)	DEPTH		DESCRIPTION		
JET PUMP TYPE: BRI STRATTON GAL / HR DIAMETER OF PIPE:	N 5.0 HP 8460	70.0	1 _ 2 _	7 7 2			
SUPPORT VESSEL: O			3 _		SAND / SHELL HASH		
USCG BEACON NAVIGATION SYSTE	EM; "HYPACK		6	Ω	CORAL FRAGMENTS LAYER		
WEATHER:  WIND DIR.: NW SPEED: 0 - 5 KT		79.0'	7 _	2 2 2 2	Sand/Shell Hash		
WAVES DIR.: SE HEIGHT: 2-3 FT.  CURRENT DIR.: NORTH		79.0	10 _	XX XX	ROCK		
SPEED: ODERAT	E		13	-			
LEGENI	)		14				
SAND	SHELL HASH		16				
			17	-			
SHELL FRAG.	ROCK FRAG.		18	1			
CODAL WRAC	RUBBLE		20	4			
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	ROBBLE = = =		21	7			
ROCK XXX	_ _		23	4			
XX		_	24	-	DDAWN DV . VDA		
TURBIDI' TOP ( 0' - 4.5' BOTTOM (4.5' - 9.0	): MODERATI	Е			DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

JET PROBE LOG							
PROJECT: BROWARD	COUNTY		_	JET PROBE: JP96 - 30			
COORDINATES:	DATE: JUNE 2	25, 1996		WAT	TER DEPTH: 70.5 Ft. NGVD		
N = 718993	START TIME:	1402		TOP	DIVER : JA		
E = 807609	END TIME:	1408		вот	TOM DIVER : SM		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	H: 18.0'	70.5'	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR	5.0 HP		1 _		SAND/SHELL HASH		
DIAMETER OF PIPE:	1.5"		3 _				
SUPPORT VESSEL: C	PE II		4				
POSITIONING: DIFFI	ERENTIAL GPS		5 _	~			
NAVIGATION SYSTE	M; "HYPACK	1	6	Ω	Coral fragments layer		
WEATHER:			7				
WIND							
DIR.: SE SPEED: 5-10 KT			8 -	- 🖺			
WAVES			9 -	- 2			
DIR.: SE HEIGHT: 1-2 FT.			10	- 2			
CURRENT			11 .	- 2			
DIR.: NORTH			12		Sand/Shell hash		
SPEED: STRONG			13				
LEGENI	)		14				
			15	~			
SAND	SHELL HASH		16				
	~ ~		17				
SHELL FRAG.	ROCK FRAG.	88.5'	18	-			
A A A	@ @		19	XX			
			20	1			
CORAL FRAG. ΩΩΩ ΩΩ	RUBBLE		21	+			
			22	+			
ROCK XXX	٦		23	+			
XX			24	-			
TURBIDI' TOP (0' - 9') BOTTOM (9' - 11.5''	MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 32							
					ER DEPTH: 71.5 Ft. NGVD DIVER: JA		
	END TIME:				TOM DIVER : SM		
LENGTH OF PVC PIPE PENETRATION DEPT		ELEV. (- FT.) 71.5'	DEPTH	$\ \cdot\ $	DESCRIPTION		
JET PUMP TYPE: BRI STRATION GAL / HR: DIAMETER OF PIPE: SUPPORT VESSEL: C POSITIONING: DIFFE	15.0 HP 8460 1.5"		1 _ 2 _ 3 _ 4 _	7 7 7 7 7 7 7 7	SAND/SHELL HASH		
WEATHER:  WIND DIR.: SE SPEED: 10 - 15 KT  WAVES DIR.: SE HEIGHT: 2 - 4 FT.  CURRENT DIR.: NORTH SPEED: STRONG		84.5'_	5 _ 6 _ 7 _ 8 _ 9 _ 10 _ 11 _ 12 _ 13	<i>a 1</i>	SAND/SHELL HASH WITH CORAL FRAGMENTS LAYERS		
SHELL FRAG.  A A A  CORAL FRAG.  Q Q Q  ROCK  X X X X	ROCK FRAG.			- XX 	ROCK		
TURBIDIT TOP (0' - 7.5') BOTTOM (7.5' - 13'	): HIGH				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 34							
	DATE: JUNE 2				TER DEPTH: 69.5 Ft. NGVD		
	END TIME:				TOM DIVER :JA		
LENGTH OF PVC PIPE			DEPTH		DESCRIPTION		
PENETRATION DEPTI	H: 16.0'						
JET PUMP TYPE: BRIC STRATTON GAL / HR :	5.0 HP	69.5	BOTTOM	1 1 1			
DIAMETER OF PIPE:	1.5"		3 _	-	Sand/Shell Hash		
SUPPORT VESSEL: CI POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTEI	RENTIAL GPS		4 _ 5 _ 6 _	-	lst ATTEMPT		
WEATHER:  WIND DIR.: SW SPEED: 5-10 KT  WAVES DIR.: SOUTH HEIGHT: 1-2 FT.  CURRENT DIR.: SOUTH SPEED: LIGHT  LEGEND	SHELL HASH	85.5		0101010101010	SAND/SHELL HASH WITH CORAL FRAGMENTS LAYERS		
SHELL FRAG.	ROCK FRAG.		17	XX XX	1		
CORAL FRAG.	RUBBLE		20	-			
ΩΩΩ	2 2		21				
XXX XX			23	-			
TURBIDIT TOP (0' - 8'): BOTTOM (8' - 16'):	HIGH				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARI	COUNTY				JET PROBE: JP96 - 36	
COORDINATES: DATE: JUNE 26, 1996					TER DEPTH: 72.5 Ft. NGVD	
N = 715054	START TIME:	1024		TOP	DIVER: DB	
E = 806715	END TIME:	1029		вот	TOM DIVER : JA	
LENGTH OF PVC PI	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEP	TH: 17.0'	72.5'	воттом			
JET PUMP TYPE: BI STRATTO GAL / HR	N 5.0 HP		1 _	111		
DIAMETER OF PIPE	i: 1.5"		3 _	-	SAND / SHELL HASH	
SUPPORT VESSEL:	CPE II		4 _	-	SAND / SHEDE HASH	
POSITIONING: DIFI USCG BEACON NAVIGATION SYST			5 _	~		
WEATHER:			6 _	Ω		
WIND DIR.: SW SPEED: 5-10 K	т		8 _	~ Ω		
_WAVES DIR.: SOUTH HEIGHT: 1 - 2 FT			10 _	Ω		
CURRENT DIR.: SOUTH SPEED: LIGHT				2 1 D 1		
LEGEN	D		14 .	~ G ~		
SAND	SHELL HASH		16	-		
		89.5'	- 17	XX		
SHELL FRAG.	ROCK FRAG.		18	_ xx		
			20			
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE		21	1		
ΩΩ	= =		22	4		
ROCK XXX	٦		23	+		
XX			24	-		
TURBID! TOP (0' - 8') BOTTOM (8' - 17'	: MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

JET PROBE LOG						
PROJECT: BROWARD	COUNTY		JET PROBE: JP96 - 38			
N = 713439	DATE: JUNE 2 START TIME: END TIME:	1124		WATER DEPTH: 71.0 Ft. NGVD TOP DIVER: DB BOTTOM DIVER: JA		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPT	Н: 15.0'	71.0	воттом	$\prod$		
JET PUMP TYPE: BRI STRATTON GAL / HR : DIAMETER OF PIPE:	N 5.0 HP : 8460		2 _			
SUPPORT VESSEL: CPE II  POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM; "HYPACK"  WEATHER:  WIND			4 _ 5 _ 6 _ 7 _	-	SAND	
DIR.: WEST SPEED: 5-10 KT  WAVES DIR.: SW HEIGHT: 1-2 FT.  CURRENT DIR.: NORTH SPEED: LIGHT			9 10 11 12 13		Sand / Shell Hash	
LEGENI	)	86 0'	14	- ~ ~ :	SAND/SHELL HASH WITH RUBBLE LAYERS	
SAND	SHELL HASH	86.0'	15		ROCK	
SHELL FRAG.	ROCK FRAG.		18	-		
CORAL FRAG.  \[ \Omega \Omega \Omega \Omega \\ \Omega \Omega \Omega \Omega \Omega \\ \Omega \Omega \Omega \Omega \Omega \\ \Omega \Omega \Omega \Omega \Omega \Omega \\ \Omega \\ \Omega \\ \Omega \\ \Omega \\ \Omega	RUBBLE  = = =		21 22	1		
XXX XX			23		DRAWN DATE OF THE PROPERTY OF	
TURBIDI' TOP (0' - 7.5' BOTTOM (7.5' - 15'	): MODERATI	3			DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWAR	D COUNTY		JET PROBE: JP96 - 40					
COORDINATES: N = 710736 E = 805802	DATE: JUNE 2 START TIME: END TIME:	•		ТОР	TER DEPTH: 76.0 Ft. NGVD DIVER: DB TOM DIVER: JA			
LENGTH OF PVC PI		ELEV.	DEPTH		DESCRIPTION			
PENETRATION DE		(- FT.) 76.0'	воттом					
GAL / HF	ON 5.0 HP R: 8460	70.5	1 _		SAND			
DIAMETER OF PIP	E: 1.5"		3 _		1st AND 3rd ATTEMPTS			
SUPPORT VESSEL:  POSITIONING: DIF USCG BEACON NAVIGATION SYS	FERENTIAL GPS	81.0'	4 _	=	SAND WITH RUBBLE LAYERS  ROCK			
WEATHER:			6 _					
WIND DIR.: SW SPEED: 5-10 k	КТ		8 _					
<u>WAVES</u> DIR.: SOUTH HEIGHT: 1-2 F			10					
CURRENT DIR.: NORTI SPEED: LIGHT			12 .	-				
LEGEN	ND		14					
SAND	SHELL HASH		15	-				
	~ ~ ~		16					
SHELL FRAG.	ROCK FRAG.		18					
CORAL FRAG.	RUBBLE		20	-				
ΩΩΩ	= =		21	-				
ROCK XXX XX	<b>₹</b> ]		23					
TURBIE TOP (0'-2.5 BOTTOM (2.5'- 5'	5'); HIGH				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 41							
COORDINATES:	DATE: JUNE 2	25, 1996		WAT	ER DEPTH: 68.5.0 Ft. NGVD		
N = 710533	START TIME:	1257		TOP	DIVER : DB		
E = 806498	END TIME:	1302		вот	TOM DIVER : JA		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT		68.5'	воттом				
JET PUMP TYPE: BRI STRATTON			1_		SAND		
GAL / HR					5415		
DIAMETER OF PIPE:	1.5"	70.5'	3 _	XX	ROCK		
SUPPORT VESSEL: C	PE II		-				
POSITIONING: DIFFI	ERENTIAL GPS	5	4 -		3 ATTEMPTS ALL REFUSAL AT 2.0°		
NAVIGATION SYSTE	M; "HYPACK		5 _	1			
WEATHER:			6 _	-			
_WIND			7 -	-			
DIR.: SW SPEED: 5-10 KT	•		8 .	-			
SPEED. 5 10 KI			9	-			
<u>WAVES</u> DIR.: SOUTH HEIGHT: 1-2 FT.			10	-			
			11	-			
CURRENT DIR.: NORTH			12				
SPEED: LIGHT							
LEGENI	······································	-	13				
			15				
SAND	SHELL HASH		16	_			
	~ ~		17	-			
SHELL FRAG.	ROCK FRAG.		18	-			
_^_	e		19				
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE		20	7			
ΩΩ	= =		21				
ROCK	~		23	1			
XXX XX			24	-			
TURBIDI	TY:	7			DRAWN BY : MDA		
TOP (0'-1') BOTTOM (1'-2'):	: MODERATE MOD. / HIGH				CHECK BY : JLA COMM. NO : 5350.37		

JET PROBE LOG							
PROJECT: BROWARI	COUNTY				JET PROBE: JP96 - 49		
COORDINATES:	DATE: JUNE	27, 1996			TER DEPTH: 71.0 Ft. NGVD		
N = 696922	START TIME:	0854		TOP	DIVER : DB		
E = 804637	END TIME:	0901	<u> </u>	ВОТ	TOM DIVER : SM		
LENGTH OF PVC PI		ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEP		71.0'	воттом				
JET PUMP TYPE: BI STRATTO			1 _	٨			
GAL / HR							
DIAMETER OF PIPE	E: 1.5*		3		Sand with shell Fragments Layers		
SUPPORT VESSEL:	CPE II						
POSITIONING: DIF	FERENTIAL GP	s	4 .	-			
USCG BEACON NAVIGATION SYST	TEM; "HYPACE	<u>c</u>	5 .	-			
WEATHER:				-  ^			
WIND			7	-			
DIR.: VAR.	-		8	-			
SPEED: 5 - 10 K	.1		9	_			
WAYES							
DIR.: VAR. HEIGHT: 1-2 F	Γ.		10	-	SAND		
CURRENT			11	-			
DIR.: NORTH	<del>I</del>		12				
SPEED: ODERA	TE		13				
LEGEN	TD.						
LEGEN	(D		15				
SAND	SHELL HASH			c	88		
	~ ~ ~		16	- 6	FRAGMENTS		
000000000000000000000000000000000000000		•	17	-	SAND		
SHELL FRAG.	ROCK FRAG.	86.0'_	_ 18	- X	Y BOOK		
			19	-   x	1		
CORAL FRAG.	RUBBLE		20	,			
ΩΩΩ	= = =		21	-			
المقسينية ا	-1	•	22	2 -			
ROCK			23	3 🚽			
xx	8		24	4 _			
TURBII	DITY:				DRAWN BY : MDA CHECK BY : JLA		
ВОТТОМ (9' - 18	): MODERATI				COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD	COUNTY			_	JET PROBE: JP96 - 51		
COORDINATES: N = 694900 E = 804100	DATE: JUNE 2 START TIME: END TIME:	0929		TOP I	ER DEPTH: 70.0 Ft. NGVD DIVER: DB OM DIVER: SM		
LENGTH OF PVC PIP			DEPTH		DESCRIPTION		
PENETRATION DEP JET PUMP TYPE: BR STRATTO GAL / HR	IGGS & N 5.0 HP	70.0'		= = = = = = = = = = = = = = = = = = = =	SAND WITH RUBBLE LAYES		
DIAMETER OF PIPE  SUPPORT VESSEL:  POSITIONING: DIFF USCG BEACON NAVIGATION SYST  WEATHER:  WIND DIR.: SE SPEED: 10 - 15 K  WAYES DIR.: SE HEIGHT: 2 - 3 FI CURRENT DIR.: NORTH SPEED: LIGHT	CPE II TERENTIAL GPO		3 _ 4 _ 5 _ 6 _ 7 _ 8 _ 9 _ 10 _ 11	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAND WITH SILT		
LEGEN  SAND  SHELL FRAG.  A A A  CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$ ROCK  XXX  XX  TURBID  TOP (0'-7'): M	SHELL HASH    ROCK FRAG.  RUBBLE    SILT		15 16 17 18 19 20 21 22 23		DRAWN BY : MDA		

JET PROBE LOG							
PROJECT: BROWARD COUNTY							
COORDINATES:	DATE: JUNE 2	8, 1996		WAT	ER DEPTH: 70.5 Ft. NGVD		
N = 692258	START TIME:	1009		ТОР	DIVER : DB		
E = 803923	END TIME:	1014		вот	TOM DIVER : SM		
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT	ГН: 20.0'+	70.5'	воттом				
JET PUMP TYPE: BR STRATTOI GAL / HR	N 5.0 HP		1 _	=			
DIAMETER OF PIPE:	1.5"		3 _		SAND WITH RUBBLE LAYERS		
SUPPORT VESSEL: ( POSITIONING: DIFF			4 -				
USCG BEACON NAVIGATION SYSTI			5 _				
WEATHER:			6 _				
WIND DIR.: VAR. SPEED: 0-5 KT.			8 _	-			
<u>WAVES</u> DIR.: VAR. HEIGHT: 1-2 FT.			10	-			
CURRENT DIR.: NORTH SPEED: ODERAT			12 .	-	SAND		
LEGENI	D		14	_			
SAND	SHELL HASH		15 16 17	-	,		
SHELL FRAG.	ROCK FRAG.	90.5'	18	-			
CORAL FRAG. ΩΩΩΩ	RUBBLE		21				
ROCK  XXX  XX			23				
TURBIDI TOP (0'-10') BOTTOM (10' - 20'	: MODERATE	1			DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY							
COORDINATES:	DATE: JUNE	27, 1996		WAT	ER DEPTH: 72.0 Ft. NGVD		
N = 690577	START TIME:	1050		TOP	DIVER: DB		
E = 803547	END TIME:	1054		вот	TOM DIVER: SM		
LENGTH OF PVC PI	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEP	TH: 14.0'	72.0'	воттом				
JET PUMP TYPE: BR STRATTO	N 5.0 HP		1 _	=			
GAL / HR DIAMETER OF PIPE			2 _	=	SAND WITH RUBBLE LAYERS		
SUPPORT VESSEL:	CPE II		3 _	=			
POSITIONING: DIFF USCG BEACON NAVIGATION SYST			5 _				
WEATHER:			7				
<u>WIND</u> DIR.: VAR. SPEED: 0-5 KT			8 _	-			
WAVES DIR.: VAR. HEIGHT: 1-2 FT CURRENT DIR.: NORTH SPEED: ODERA*			9 - 10 - 11 - 12 -	-	SAND		
LEGEN	D	86.0'_	_ 14	- XX	ROCK		
SAND	SHELL HASH		15	- XX			
	~ ~		16				
SHELL FRAG.	ROCK FRAG.		18	-			
			19	-			
CORAL FRAG.	RUBBLE		20	7			
ΩΩΩ	= =		21	7			
ROCK			23				
XXX			24	-			
TURBIDI TOP (0' - 7') BOTTOM (7' - 14')	: LOW				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTYJET PROBE: JP96 - 57_								
COORDINATES: N = 689500 E = 803528	DATE: JUNE 2 START TIME: END TIME:	ТОР	ER DEPTH: 71.0 Ft. NGVD DIVER: DB TOM DIVER: SM					
LENGTH OF PVC PIP			DEPTH		DESCRIPTION			
PENETRATION DEPT	ГН: 5.0'	(- FT.) 71.0'	воттом					
JET PUMP TYPE: BR STRATTOI GAL / HR	N 5.0 HP : 8460		1 _ 2 _		SAND WITH RUBBLE LAYERS			
DIAMETER OF PIPE: SUPPORT VESSEL: (			3 -	- - =	SAND WITH KUBBLE LAYERS			
POSITIONING: DIFF USCG BEACON NAVIGATION SYST		76.0'	5	XX	ROCK			
WEATHER:			6	_ xx	2 ATTEMPTS ALL REFUSAL AT 5.0°			
WIND DIR.: VAR. SPEED: 0 - 5 KT			8	-				
_WAVES DIR.: VAR. HEIGHT: 1-2 FT			10	-				
CURRENT DIR.: NORTH SPEED: ODERA			12	-				
LEGEN	D		14					
			15	_				
SAND	SHELL HASH		16	-				
	~ ~		17	-				
SHELL FRAG.	ROCK FRAG.		18	-				
_ ^ ^	•		19	-				
CORAL FRAG.	RUBBLE		20	7				
ΩΩΩ	3 =		21	7				
ROCK			23	· 🚽				
xx			24	-				
TURBID TOP (0'-3') BOTTOM (3'-5')	: MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37			

JET PROBE LOG							
PROJECT: BROWARD COUNTY							
N = 688602	DATE: JUNE 2 START TIME:	1214			ER DEPTH: 70.5 Ft. NGVD		
E = 803812	END TIME:	1219		BOT	TOM DIVER : JA		
LENGTH OF PVC PIP		ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT		70.5'	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR :	1 5.0 HP		1 _ 2 _		SAND		
DIAMETER OF PIPE:	1.5"		3 _		lst ATTEMPT		
SUPPORT VESSEL: C POSITIONING: DIFFI USCG BEACON	ERENTIAL GPS		5 _	= = = = = = = = = = = = = = = = = = = =	SAND WITH RUBBLE LAYERS		
NAVIGATION SYSTE	M; "HYPACK	76.0	5.5		ROCK		
WIND DIR.: VAR. SPEED: 0 - 5 KT			8	-	2 ATTEMPTS REFUSAL AT 5.5		
_WAVES DIR.: VAR. HEIGHT: 1-2 FT.			10	-			
CURRENT DIR.: NORTH SPEED: ODERAT	TE		12	-			
LEGENI	)		14				
			15	_			
SAND	SHELL HASH		16	_			
	_~~		17	-			
SHELL FRAG.	ROCK FRAG.		18	-			
^ ^	e e		19	-			
CORAL FRAG.	RUBBLE		20	+			
ΩΩΩ	= = =		21	7			
ROCK			23				
XXX			24	-			
TURBIDI' TOP (0'-3') BOTTOM (3'-5.5'	: MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

JET PROBE LOG							
PROJECT: BROWARD COUNTY							
N = 710017	DATE: JUNE 2 START TIME: END TIME:	1335		TOP :	ER DEPTH: 75.5 Ft. NGVD DIVER: DB TOM DIVER: JA		
LENGTH OF PVC PIPE		ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT  JET PUMP TYPE: BRI STRATION GAL / HR:  DIAMETER OF PIPE:	GGS & 15.0 HP 8460 1.5"	75.5'	1 _ 2 _ 3 _		SAND WITH RUBBLE LAYERS		
SUPPORT VESSEL: C POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE WEATHER:	ERENTIAL GPS	80.5'	5 _	= = XX XX	ROCK 2 ATTEMPTS REFUSAL AT 1.0°		
WIND DIR.: SW SPEED: 5-10 KT			7 _ 8 _ 9 _				
WAVES DIR.: SOUTH HEIGHT: 1-2 FT.  CURRENT DIR.: NORTH SPEED: LIGHT			10 _	-			
LEGEND	•		14	-			
SAND	SHELL HASH		15 16	-			
SHELL FRAG.	ROCK FRAG.		18				
CORAL FRAG. ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	RUBBLE		20 21 22				
ROCK XXX XX	]		23				
TURBIDIT TOP (0'-2.5'): M BOTTOM (2.5'-5'):	ODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 50							
	DATE: JUNE 2	•			ER DEPTH: 71.0 Ft. NGVD		
N = 695633	START TIME:	0914		TOP	DIVER : DB		
E = 804480	END TIME:	0919	····	BOT	TOM DIVER : SM		
LENGTH OF PVC PIPE		ELEV. (- FT.)	DEPTH		DESCRIPTIÓN		
PENETRATION DEPT		71.0'	воттом				
JET PUMP TYPE: BRIG STRATTON GAL / HR :	5.0 HP		1 _	-			
DIAMETER OF PIPE:			3 _	-	SAND/SHELL HASH		
SUPPORT VESSEL: C		S	4 -	7 7			
USCG BEACON NAVIGATION SYSTE	M;"HYPACK		5 .				
WEATHER:			7	- Ω	CORAL FRAGMENTS LAYER		
<u>WIND</u> DIR.: VAR. SPEED: 5-10 KT			8	-	SAND		
<u>WAVES</u> DIR.: VAR. HEIGHT: 1-2 FT.			10	-   G			
CURRENT DIR.: NORTH			11	_ ପ - ପ			
SPEED: LIGHT LEGEND	)		13				
SAND	SHELL HASH		15 16 17	-	SAND		
SHELL FRAG.	ROCK FRAG.	90.0'_	19	-    -   XX			
CORAL FRAG. ΩΩΩ	RUBBLE = =		20 21 22	1			
ROCK XXX	<b>7</b>		23				
TURBIDIT	TY: MODERATE		24	-	DRAWN BY : MDA CHECK BY : JLA		
ВОТТОМ (9' - 19') :	HIGH				COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 52						
COORDINATES:	DATE: JUNE				ER DEPTH: 72.0 Ft. NGVD	
N = 693884	START TIME:				DIVER: DB	
E = 804098	END TIME:	0958		ВОТТ	OM DIVER : SM	
LENGTH OF PVC PI	PE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEF	PTH: 20.0'+	72.0	воттом			
JET PUMP TYPE: B						
GAL / HF	ON 5.0 HP R: 8460		1 -			
DIAMETER OF PIPI	E. 15"		2 _		SAND WITH SHELL	
		_	3 _		FRAGMENTS LAYERS	
SUPPORT VESSEL:	CPE II		4 _	٨		
POSITIONING: DIF	FERENTIAL GP	s				
USCG BEACON NAVIGATION SYST	ГЕМ ; "НҮРАСК	3	5 -	-		
WEATHED.			6 .	- 🔌		
WEATHER:			7 .	_ 🔼		
<u>WIND</u> DIR.: SE				C C	CORAL FRAGMENTS LAYER	
SPEED: 10 - 15 k	СT					
WAVES			9 .	-		
DIR.: SE	•		. 10	-	SAND	
HEIGHT: 2-3 FT	1.		11	-		
<u>CURRENT</u> DIR.: NORTE	4		12			
SPEED: LIGHT				-		
		-	13	- <mark>  Ω</mark>	CORAL FRAGMENTS LAYER	
LEGEN	(D		14	- <u>n</u>		
			15	-		
SAND	SHELL HASH		16	-		
	~ ~		17		SAND	
SHELL FRAG.	ROCK FRAG.		18			
^ ^ ^	<b>e</b> e		19	-		
	·	92.0'	20			
CORAL FRAG.	RUBBLE		21			
ΩΩ	= =		22			
ROCK			23			
XXX			24			
TURBID TOP (0' - 10' BOTTOM (10' - 20	'): MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 54								
COORDINATES:	DATE: JUNE 2	27, 1996		WATE	ER DEPTH: 70.0 Ft. NGVD			
N = 692189	START TIME:	1027		TOP I	DIVER : DB			
E = 804362	END TIME:	1032		вотт	OM DIVER : SM			
LENGTH OF PVC P	IPE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION			
PENETRATION DE	PTH: 6.0'	70.0	воттом					
	RIGGS & ON 5.0 HP R: 8460		1 _	=				
DIAMETER OF PIP	E: 1.5"		3 _	=	SAND WITH RUBBLE LAYERS			
SUPPORT VESSEL:	CPE II		4	]=				
POSITIONING: DIF USCG BEACON NAVIGATION SYS			5	] =     =				
WEATHER:		76.0'	- 6 -	XX	ROCK			
WIND DIR.: VAR. SPEED: 0-5 K			8 .					
<u>WAVES</u> DIR.: VAR. HEIGHT: 1-2 F			10					
CURRENT DIR.: NORT SPEED: ODER.	Ή		11	-				
LEGE	ND.		13					
LEGE			15					
SAND	SHELL HASH		16					
	~ ~		17	-				
SHELL FRAG.	ROCK FRAG.		18	-				
^ ^			19	-				
CORAL FRAG.	RUBBLE		20	+				
ΩΩΩ	= = =		21	7				
ROCI	ĸ		23	7				
XX	X		24	7				
TURBI TOP (0'-3 BOTTOM (3'-6'	DITY: '): MODERATE ): MODERATE				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 56							
COORDINATES: N = 690296	DATE: JUNE 2 START TIME: END TIME:	1108		WATER DEPTH: 67.0 Ft. NGVD TOP DIVER: DB			
E = 804451  LENGTH OF PVC PIF			DEPTH	БОТ	TOM DIVER : SM  DESCRIPTION		
PENETRATION DEP		(- FT.) 67.0'	воттом		DEGGINI NON		
JET PUMP TYPE: BR STRATTO GAL / HR	N 5.0 HP : 8460		1 _		SAND		
SUPPORT VESSEL:			3 _				
POSITIONING: DIFF USCG BEACON NAVIGATION SYST  WEATHER:  WIND DIR.: VAR. SPEED: 0-5 KT	EM; "HYPACK		5 _ 6 _ 7 _ 8 _ 9 _	5 _ 6 _ 7 _ 8 _ 9 _	A A A A	SAND WITH SHELL FRAGMENTS LAYERS	
HEIGHT: 1-2 FT  CURRENT  DIR.: NORTH	<del></del>		11	= = = = = = = = = = = = = = = = = = = =	SAND WITH RUBBLE LAYERS 1st. ATTEMPT		
SAND  SHELL FRAG.  A A A  CORAL FRAG.  Q Q Q  ROCK  X X X  X X	SHELL HASH    C C C C C C C C C C C C C C C C C		14		ROCK		
TURBIDI TOP (0'-8') BOTTOM (8' - 13'	: MODERATE	1			DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350,37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD	COUNTY		JET PROBE: JP96 - 58			
COORDINATES:	DATE: JUNE 2	27, 1996		WAT	ER DEPTH: 68.5 Ft. NGVD	
N = 689131	START TIME:	1150		ТОР	DIVER : DB	
E = 804190	END TIME:	1154		вот	TOM DIVER : SM	
LENGTH OF PVC PIP	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEP	ГН: 5.0'	68.5'	воттом			
JET PUMP TYPE: BR STRATTOI GAL / HR	N 5.0 HP		1 _	2 2 2		
DIAMETER OF PIPE	1.5"		3 _	~	SAND / SHELL HASH	
SUPPORT VESSEL: 0 POSITIONING: DIFF			4 -	7 7		
USCG BEACON NAVIGATION SYST	EM;"HYPACK	73.5'	6 .	XX	ROCK	
WEATHER:			7			
WIND DIR.: WEST SPEED: 0 - 5 KT			8 .	-		
<u>WAVES</u> DIR.: VAR. HEIGHT: 1-2 FT.			10	-		
CURRENT  DIR.: NORTH  SPEED: ODERA			11			
SPEED: ODERA			13	-		
LEGEN	D		14	-		
SAND	SHELL HASH		15	-		
	~ ~ ~		16	-		
			17	-		
SHELL FRAG.	ROCK FRAG.		18			
			20			
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	RUBBLE		21	4		
			22	+		
XXX XX	_		23	1		
TURBIDI	TY:	=	24	-	DRAWN BY : MDA CHECK BY : JLA	
ВОТТОМ (2.5' - 5'					COMM. NO: 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD	-	JET PROBE: JP96 - 60				
	DATE: JUNE 2			ER DEPTH: 64.0 Ft. NGVD		
	START TIME: END TIME:				DIVER : SM TOM DIVER : JA	
LENGTH OF PVC PIPI			DEPTH	БОТ	DESCRIPTION	
PENETRATION DEPT		(- FT.)		H	22001111 11011	
JET PUMP TYPE: BRI STRATTON GAL / HR :	5.0 HP	64.0'	BOTTOM 1 _	٨		
DIAMETER OF PIPE:	1.5*		3 _			
SUPPORT VESSEL: C	PE II			Ω		
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE			5 _	٨		
WEATHER:				۵		
WIND DIR.: VAR. SPEED: 0-5 KT				Ω		
_WAVES DIR.: VAR. HEIGHT: 1-2 FT.			10	Ω		
CURRENT DIR.: NORTH SPEED: ODERAT	E		12	-   ^ -   Ω -   ^	SAND WITH SHELL AND CORAL FRAGMENTS LAYERS	
LEGEND	)	1	13	-		
			15			
SAND	SHELL HASH		16	_ G		
			17			
SHELL FRAG.	ROCK FRAG.		18			
GORAL TRAC	Dimni =		20	Ω Ω		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	RUBBLE  E = =	85.0'	21	_ 🔯		
			22			
XXX XX			23			
TURBIDIT TOP (0' - 10') BOTTOM (10' - 21')	: LOW				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG							
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 61							
N = 686089	DATE: JUNE 2 START TIME:	1305			ER DEPTH: 65.5 Ft. NGVD DIVER: SM		
E = 802965	END TIME:	1310		BOTT	OM DIVER : JA		
LENGTH OF PVC PIPI		ELEV. (- FT.)	DEPTH		DESCRIPTION		
PENETRATION DEPT		65.5"	воттом				
JET PUMP TYPE: BRI STRATTON GAL / HR	1 5.0 HP		1 _				
DIAMETER OF PIPE:	1.5"		3 _		SAND		
SUPPORT VESSEL: C	PE II		4 _				
POSITIONING: DIFFI			5 _				
NAVIGATION SYSTE	M; "HYPACK		6 _	G G	CORAL FRAGMENTS LAYER		
WIND			7 _	$\  \ $			
DIR.: EAST SPEED: 5-10 KT	•		8.		SAND		
<u>WAVES</u> DIR.: EAST			10				
HEIGHT: 1-2 FT.			11	ြ ဂ	CORAL FRAGMENTS LAYER		
CURRENT DIR.: NORTH SPEED: MODERA	ГЕ		12	-			
LEGENI	D		14				
SAND	SHELL HASH		15 16 17		SAND		
SHELL FRAG.	ROCK FRAG.		18				
CORAL FRAG. ΩΩΩ ΩΩ	RUBBLE	85.5'_	20 21 22				
ROCK XXX			23				
TURBIDI	: MODERATE				DRAWN BY: MDA CHECK BY: JLA COMM. NO: 5350.37		

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG						
PROJECT: BROWARD	COUNTY		-	JET PROBE: JP96 - 64		
COORDINATES:	DATE: JUNE 2	8, 1996		WAT	ER DEPTH: 69.5 Ft. NGVD	
N = 680813	START TIME:	0843		TOP	DIVER : JA	
E = 802745	END TIME:	0847		вот	TOM DIVER : DB	
LENGTH OF PVC PIPE	E: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DEPT	H: 19.0'	69.5'	воттом	_		
JET PUMP TYPE: BRIG			1	2		
GAL / HR :			•-			
DIAMETER OF PIPE:	1.5"		2 _	~   ~   ~		
SUPPORT VESSEL: C	PE II		3 -			
POSITIONING: DIFFE	RENTIAL GPS			7-1		
USCG BEACON NAVIGATION SYSTE	M ; "HYPACK	,	5 _	- Ž		
WEATHER:			6 _	7-1		
WIND			7 -	┪╗	SHELL FRAGMENTS	
DIR.: SW			8 .	_ ^		
SPEED: 0 - 5 KT			9	2		
WAVES				-	Sand/Shell Hash	
DIR.: VAR. HEIGHT: 1-2 FT.			10	<b>⊣</b> ~		
CURRENT			11 .	- 2		
DIR.: SOUTH			12			
SPEED: LIGHT			13	2		
LEGENI	)		14			
			15			
SAND	SHELL HASH		16	1		
	~ ~					
OUTLI TRAC	ROCK FRAG.		17	7		
SHELL FRAG.	e e	88.5'_	19	7		
			20	_XX _XX	ROCK	
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE		21	1		
ΩΩ			22	4		
ROCK			23	_		
XXX			24	4		
TURBIDIT TOP (0' - 9'): BOTTOM (9' - 19'):	LOW				DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37	

COASTAL PLANNING & ENGINEERING, INC.

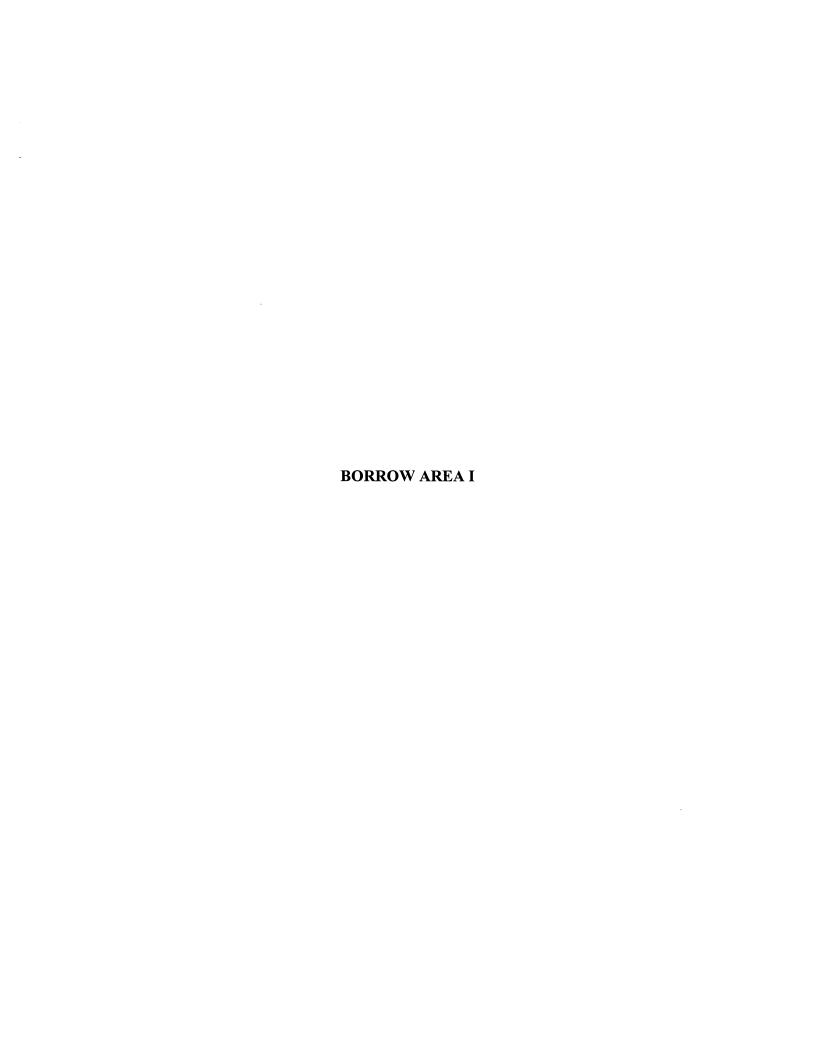
JET PROBE LOG						
PROJECT: BROWAR	D COUNTY		IET PROBE: JP96 - 66			
COORDINATES:	DATE: JUNE 2	8, 1996		WATER DEPTH: 62.0 Ft. NGVD		
N = 677959	START TIME:	.0935		ТОР	DIVER : JN	
E = 802852	END TIME:	0942		вот	TOM DIVER : DB	
LENGTH OF PVC PI	IPE: 20.0'	ELEV. (- FT.)	DEPTH		DESCRIPTION	
PENETRATION DE	PTH: 4.0'	62.0'	воттом			
JET PUMP TYPE: B		33.5			SAND	
	ON 5.0 HP R: 8460		1 _		RUBBLE LAYER	
DIAMETER OF PIP	E: 1.5"		3		let hand ATTENDE	
SUPPORT VESSEL:	CPE II				1st. & 2nd. ATTEMPT SAND	
POSITIONING: DIF	FERENTIAL GPS	66.0'	4 -	XX	ROCK	
USCG BEACON	TEM . "UVDACV		5 _	XX		
NAVIGATION SYS	IEM; HIPACK	1	6 _	]	2 ATTEMPTS REFUSAL AT 4.0'	
WEATHER:			7			
WIND			-	1		
DIR.: SE SPEED: 10 - 15 I	KT		8 -	-		
WAVEC			9 _	-		
<u>WAVES</u> DIR.: SE			10			
HEIGHT: 2-3 F	Γ.		11			
CURRENT						
DIR.: NORTI			12	1		
		-	13	1		
LEGEN	ND		14	-		
			15	-		
SAND	SHELL HASH		16	1		
	~ ~		17			
SHELL FRAG.	ROCK FRAG.		18			
^ ^ ^			19			
			20		•	
CORAL FRAG. $\Omega$ $\Omega$	RUBBLE		21			
ΩΩ	= =		22			
ROCK			23			
XXX XX	<b>K</b>		24			
TURBID	DITY:	-			DRAWN BY : MDA	
	MODERATE				CHECK BY : JLA	

COASTAL PLANNING & ENGINEERING, INC.

JET PROBE LOG								
PROJECT: BROWARD COUNTY JET PROBE: JP96 - 70								
N = 674509	DATE: JUNE 2	1106		ТОР	ER DEPTH: 72.0 Ft. NGVD DIVER: JN			
E = 802060	END TIME:			BOT	TOM DIVER : DB			
LENGTH OF PVC PIPE PENETRATION DEPT		ELEV. (- FT.)	DEPTH		DESCRIPTION			
JET PUMP TYPE: BRI STRATTON GAL / HR : DIAMETER OF PIPE: SUPPORT VESSEL: C	1 5.0 HP 8460 1.5"	72.0	1 _ 2 _ 3 _	2 2 2 2 2 2 2	SAND / SHELL HASH			
POSITIONING: DIFFE USCG BEACON NAVIGATION SYSTE	ERENTIAL GPS		4 _ 5 _ 6 _	7 7 7 7				
WEATHER:			7 _	C	CORAL FRAGMENTS LAYER			
WIND DIR.: VAR. SPEED: 0 - 5 KT		81.0'	8 _	1 1 1	SAND/SHELL HASH			
WAVES DIR.: VAR. HEIGHT: 1-2 FT.		01.0_	10 _	XX XX	ROCK			
CURRENT DIR.: SOUTH SPEED: LIGHT			12 _					
LEGENI	)		14 _	-				
SAND	SHELL HASH		15	-				
200000000000000000000000000000000000000	·		17	-				
SHELL FRAG.	ROCK FRAG.		18					
CORAL FRAG.	RUBBLE		20	-				
ΩΩΩ	= = =		21					
ROCK XXX	1		23	7				
TURBIDIT TOP (0'-5'): BOTTOM (5'-9'): N	MODERATE		24		DRAWN BY : MDA CHECK BY : JLA COMM. NO : 5350.37			

COASTAL PLANNING & ENGINEERING, INC.

SUB-APPENDIX E-2 VIBRACORE LOGS



			VIBR/	ACORE LO	DG				
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 1	***			
COORDINATES:	DATE: SEPT.	19, 1996	<b>i</b>	WATER DEPTH: 31.7 Ft. NGVD					
E = 804971	START TIME :	1330		DRILLER:	ROSSCORE (R. POLLACK)				
N = 722759	END TIME :	1350		CLIENT REP:	JLA	I			
CORE DIAMETER	₹: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP. NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	31.7'	0.0						
PENETRATION D	EPTH: 5.9'	32.1'_	0.6_	1 1	DARK GRAY (5Y 4/1) MED. GRAINED SAND WITH SHELL HASH	_1 0.4'	1.41 Phi 0.38 mm		
LENGTH RECOVE		33.2'_		Λ Λ	GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH	_2	1.6% Silt		
LENGTH RETAIN PERCENT RETAINE			2.3	Ω	SHELL HASH	1.5'	1.84 Phi 0.28 mm		
SUPPORT VESS	EL: SUEBEE III			ΩΩ	(1° - 2") CORAL FRAGMENTS		1.5% Silt		
POSITIONING: [	DIFFERENTIAL GPS	36.0'_	4.0	1 1	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH	_3	1.58 Phi 0.34 mm		
WEATHER:				7 7	SHELL HASH	4.3'	2.2% Silt		
<u>WIND:</u> DIR.: NE		37.6'_	5.9_	Ω	CORAL FRAGMENT (2.0°)				
SPEED: 0-5	KT.				PENETRATION TO 5.9 FT.				
<u>WAVES</u> DIR.: SOU [*] HEIGHT 0-1			8.0		NO PENETRATION FOR LAST 4 MINUTES				
LOGGED BY: SK ANALYSIS BY: S			_						
DATE: SEPT.199			-	_					
ANALYSIS METH VISUAL LOGG									
MECHANICAL	SIEVE		12.0						
SAND	SHELL FRAG.			_					
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH		_	_					
	ROCK/RUBBLE  X X X X  X X X		16.0						
	CALCULATED USING	) (O) (E)	LYGINOD						

E = 805044 START TIME : 0953 DRILLER  N = 721321 END TIME : 1005 CLIENT I  CORE DIAMETER: 4.0" ELEV. DEPTH LEGEL  FT (-)  LENGTH OF BARREL: 15.0'  PENETRATION DEPTH: 6.9'  LENGTH RECOVERED: 6.9'  PERCENT RECOVERED 100 %	REP: JLA
E = 805044 START TIME: 0953 DRILLER  N = 721321 END TIME: 1005 CLIENT I  CORE DIAMETER: 4.0" ELEV. DEPTH LEGEL  FT (-)  LENGTH OF BARREL: 15.0'  PENETRATION DEPTH: 6.9'  LENGTH RECOVERED: 6.9'  PERCENT RECOVERED 100 %	REP: JLA  ND DESCRIPTION SAMP REMARKS NO.  DARK GRAY (5Y 4/1) MEDIUM -FINE GRAINED SAND  REMARKS 1.39 Phi 0.38 mm 1.5% Silt
N = 721321 END TIME : 1005 CLIENT I  CORE DIAMETER: 4.0" ELEV. FT (-) DEPTH LEGER FT (-) 34.5' 0.0  PENETRATION DEPTH: 6.9'  LENGTH RECOVERED: 6.9' 35.5'	REP: JLA  ND DESCRIPTION SAMP NO.  PARK GRAY (5Y 4/1)  DARK GRAY (5Y 4/1)  MEDIUM -FINE GRAINED SAND  REMARKS  1.39 Phi 0.38 mm 1.5% Silt
CORE DIAMETER: 4.0" ELEV. DEPTH LEGERAL: 15.0'  LENGTH OF BARREL: 15.0'  PENETRATION DEPTH: 6.9'  LENGTH RECOVERED: 6.9' PERCENT RECOVERED 100 %	DESCRIPTION SAMP NO.  REMARKS NO.  1.39 Phi 0.38 mm 1.5% Silt MEDIUM -FINE GRAINED SAND
LENGTH OF BARREL: 15.0'  PENETRATION DEPTH: 6.9'  LENGTH RECOVERED: 6.9' PERCENT RECOVERED 100 %  FT (-)  34.5'  0.0	To the second se
34.5'   0.0	DARK GRAY (5Y 4/1) 1.0' 0.38 mm  1.5% Silt
LENGTH RECOVERED: 6.9' 35.5' ~- ~	DARK GRAY (5Y 4/1) 1.0' 0.38 mm  1.5% Silt
LENGTH RETAINED: 6.9'  PERCENT RETAINED: 100 %	
SUPPORT VESSEL: SUEBEE III	^
WEATHER: 39.5' -	DAKA GRAT (31 4/1) MED. SAND W/
WAVES DIR.: SE HEIGHT: 0-1 FT	PENETRATION TO 6.9 FT.  12 MINUTES  NO PENETRATION FOR LAST
LOGGED BY: SK / MA ANALYSIS BY: SK DATE: SEPT.1996	4 MINUTES
ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  12.0	
SAND SHELL FRAG.	
CORAL FRAG. SHELL HASH $ \begin{array}{cccc} \Omega & \Omega & \Omega \\ \Omega & \Omega &  \end{array} $	
ROCK/RUBBLE  XXXX  XXX	

			\/\DD				V-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
PROJECT: BROW	APD COUNTY			ACORE LO	_			
PROSECT. BROW	AND COOKIT		W ANEA	I DA I	CORE NO : VC96 - 5			
COORDINATES:	DATE: SEPT.	19, 1996	5	WATER DEPTH: 30.2 Ft. NGVD				
E = 804467	START TIME :	0909		DRILLER:	ROSSCORE (R. POLLACK)			
N = 720086	END TIME :	0924		CLIENT REP:	JLA	·	<del>-</del>	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	LENGTH OF BARREL: 15.0'		0.0			NO.		
PENETRATION D	EPTH: 7.0'	30.2	0.0					
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % ED: 5.9'	31.7'_		1 1 2	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	_1 1.5'	1.73 Phi 0.30 mm 2.1% Silt	
SUPPORT VESSI				, , , ,	SHELL FRAGMENTS (1.0°)			
POSITIONING: E	DIFFERENTIAL GPS	34.2'_	4.0	1 <	SHELL FRAGMENTS	_2 4.0'	1.46 Phi 0.36 mm 1.6% Silt	
WEATHER:				- < -	SHELL FRAGMENTS			
WIND: DIR.: NE SPEED: 0-5	кт	36.2'_	6.0	~ ~ ~ X ~ X	DARK GRAY (5Y 4/I) MED. GRAINED			
<u>WAVES</u> DIR.: SE HEIGHT: 0-1	r <b>T</b>	37.2'_	8.0	- X - X	SD W/SHELL HASH AND RUBBLE (60%) PENETRATION TO 7.0 FT.			
LOGGED BY: SK					15 MINUTES  NO PENETRATION FOR LAST  8 MINUTES			
ANALYSIS BY: SP DATE: SEPT.1990								
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG							
SAND	SHELL FRAG.		12.0					
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \end{array}$	SHELL HASH							
	ROCK/RUBBLE  X X X X  X X X		16.0					
NOTE: MEAN WAS CA	ALCULATED USING	MOMENT	METHOD					

	· · · · · · · · · · · · · · · · · · ·		VIBRA	ACORE LO	OG			
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 42			
COORDINATES:	DATE: OCT. 9	, 1996		WATER DEPTH: 31.5 Ft. NGVD				
E = 804528	START TIME :	1514		DRILLER:	ROSSCORE (R. POLLACK)			
N = 719455	END TIME :	1534		CLIENT REP:	JLA			
CORE DIAMETER	R: 4.0"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP	REMARKS	
LENGTH OF BARI	REL: 15.0'	FT (-)				NO.		
PENETRATION D	EPTH: 8.5'	31.5'	0.0	~ ~				
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % ED: 7.2'	32.5'		1 1 1	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	1 1.0'	1.71 Phi 0.31 mm 1.7% Silt	
SUPPORT VESSI		34.5'	4.0	1 1		2 3.0'	1.80 Phi 0.29 mm 1.7% Silt	
	GPS			Ω	CORAL FRAGMENT (3.0*)			
WEATHER:		37.0'_		Ω ~ ~	CORAL FRAGMENT (2.0°)	_3	1.32 Phi 0.40 mm	
<u>WIND:</u> DIR.: NE SPEED: 0-5	кт			~ ~ ~	SHELL FRAGMENT (1.0°)	5.5'	1.8% Silt	
<u>WAVES</u> DIR.: EAST HEIGHT: 0-1		40.0'_	8.0	Ω Ω	CORAL FRAGMENT (3.5°)			
LOGGED BY: SK ANALYSIS BY: SK DATE: OCT.1996	<				PENETRATION TO 8.5 FT.  20 MINUTES  NO PENETRATION FOR LAST			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		5 MINUTES			
SAND	SHELL FRAG.	Section (Assessment of the Section o		-				
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH							
	ROCK/RUBBLE  XXXX  XXX		16.0	_				
	ALCULATED USING	1000						

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 43		
COORDINATES:	DATE: OCT.9	1996		WATER DEPT	H: 33.7 Ft. NGVD		
E = 804861	START TIME :	1552		DRILLER:	ROSSCORE (R. POLLACK)		
N = 720269	END TIME :	1613		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	33.7'	0.0				
PENETRATION D	EPTH: 12.8 ¹	00.7	0.0	7 7			1.36 Phi
LENGTH RECOVER	RED: 95 %	34.7' –		1 1	,	-1 1.0'	0.39 mm 1.7% Silt
PERCENT RETAINE SUPPORT VESS	D: 95 %			1 1			
POSITIONING: [	DIFFERENTIAL GPS		4.0	7 7	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH		
WEATHER:		38.7'		~ .	SHELL HASH	2 5.0'	1.57 Phi 0.34 mm 1.7% Silt
<u>WIND:</u> DIR.: NE SPEED: 0-5	кт		_				
WAVES DIR.: EAST			8.0				
HEIGHT: U-T	F1		8.4_	XXX	RUBBLE LAYER	]	
LOGGED BY: SK		40.0			DARK GRAY (5Y 4/1) MEDIUM		1.29 Phi
ANALYSIS BY: S DATE: OCT.1996		43.2'	1 _	ļ~~~	GRAINED SAND WITH SHELL HASH	_3 9.5'	0.41 mm 1.8% Silt
ANALYSIS METH			10.6_	- <u>^</u> ^	SHELL FRAGMENTS LAYER		
VISUAL LOGG MECHANICAL			10.9_	- X X X	RUBBLE LAYER DARK GRAY (5Y 4/1) MEDIUM	-	
MEGIANOAL	OILVL		12.0	Ω	GRAINED SAND WITH		
SAND	SHELL FRAG.	45.9' 46.5'	_	- ~ ~	SHELL HASH	4	
	Λ	40.0	12.0_		NO SAMPLE RECOVERED	1	
CORAL FRAG. $\Omega$ $\Omega$	SHELL HASH		_		PENETRATION TO 12.8 FT. 21 MINUTES NO PENETRATION FOR LAST		
ΩΩ	POCK THEFT T		-		5 MINUTES		
	X X X X X X X X X X X X X X X X X X X		16.0				
NOTE: MEAN WAS C	CALCULATED USING	MOMEN	T METHOD				

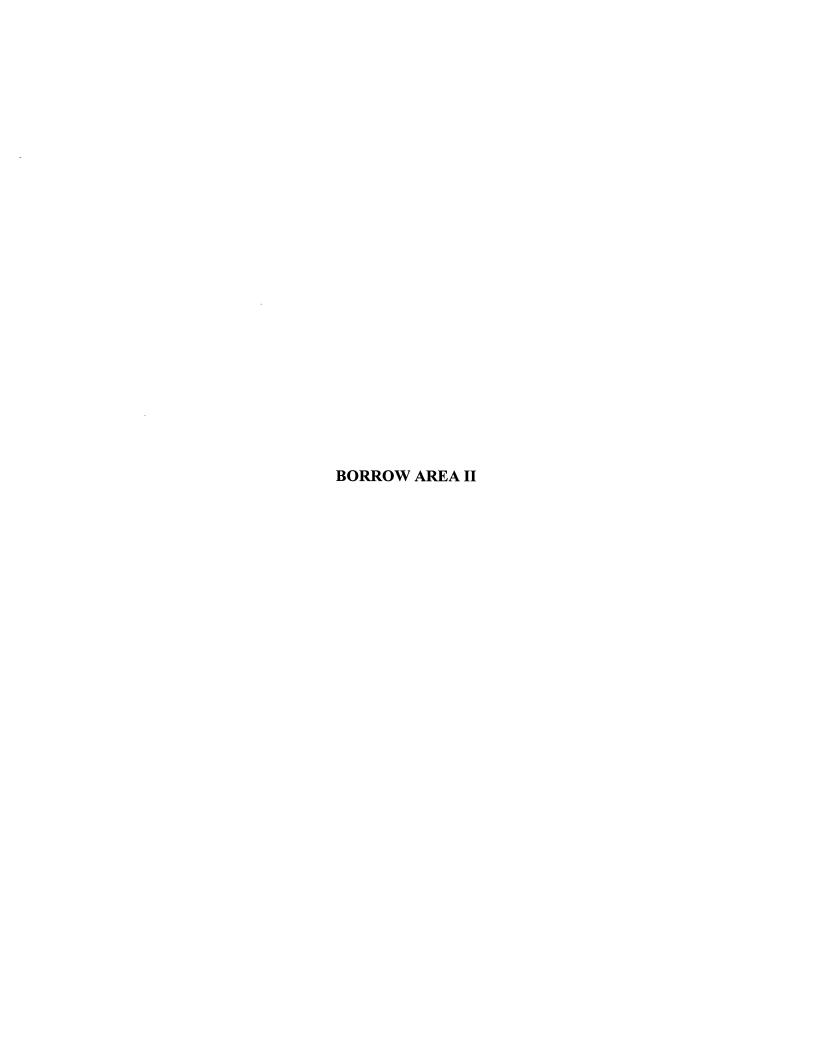
			VIBR/	ACORE LO	OG			
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 44			
COORDINATES:	DATE: OCT. 9	, 1996		WATER DEPTH: 28.0 Ft. NGVD				
E = 804317	START TIME :	1654		DRILLER:	ROSSCORE (R. POLLACK)			
N = 720805	END TIME:	1714		CLIENT REP:	JLA	г		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	28.0'	0.0					
PENETRATION D	EPTH: 9.0'	20.0	0.0				1.72 DL:	
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % ED: 8.2'	29.0'	_	1 1 1 1 1 1 1	GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH	1 1.0'	1.72 Phi 0.30 mm 1.6 % Silt	
SUPPORT VESS		31.5'_	4.0	1 1 1	SHELL HASH	_2 3.5'	1.68 Phi 0.31 mm 1.4% Silt	
WEATHER:	<b>5</b> 1 <b>5</b>			~ ~				
WIND: DIR.: NE SPEED: 0-5	КТ	35.0'			DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	3	1.43 Phi 0.37 mm	
_WAVES DIR.: NE HEIGHT: 0-1	FT		8.0	1 1		7.0'	1.3% Silt	
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	K	37.0'_	9.0		PENETRATION TO 9.0 FT.			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING				20 MINUTES NO PENETRATION FOR LAST 5 MINUTES			
SAND	SHELL FRAG.		12.0					
CORAL FRAG. $\Omega \Omega \Omega$	SHELL HASH		-					
ΩΩ	ROCK/RUBBLE  X X X X  X X X		16.0	-				
	ALCULATED USING							

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD

· · · · · · · · · · · · · · · · · · ·			VIBRA	ACORE LO	 DG		
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 45		
COORDINATES:	DATE: OCT. 9	, 1996		WATER DEPT	H: 29.5 Ft. NGVD		****
E = 804500	START TIME :	1739		DRILLER:	ROSSCORE (R. POLLACK)		
N = 721750	END TIME :	1755		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'					INO.	
PENETRATION D	EPTH: 7.5'	29.5' 30.0'_	0.0	7 7	GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH	_1 0.5'	1.56 Phi
LENGTH RECOV			1.1	7 7	SHELL HASH	0.5	0.34 mm 1.3% Silt
PERCENT RECOVER	ED: 6.3'	31.7'_		7 ~	OLIVE GRAY (5Y 5/2) MEDIUM		1.41 Phi
SUPPORT VESS		31.7_		- ,	GRAINED SAND WITH SHELL HASH AND FRAGMENTS	2.2'	0.38 mm 1.6% Silt
POSITIONING: [			3.3 4.0	^ ^	SHELL FRAGMENT		
WEATHER:  WIND: DIR.: NE SPEED: 0-5	gps KT	34.5'		~ ~ ~	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	3 5.0'	1.60 Phi 0.33 mm 1.9% Silt
WAVES DIR.: NE HEIGHT: 0-1	FT	37.0'_	7.5_ 8.0		PENETRATION TO 7.5 FT. 16 MINUTES		
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	K			-	NO PENETRATION FOR LAST 5 MINUTES		
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0	-			
SAND	SHELL FRAG.						
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \end{array}$	SHELL HASH					-	
	ROCK/RUBBLE  X X X X  X X X		16.0				
NOTE: MEAN WAS C					FNONEEDIN		

<del></del>			\/IBD/	ACORE LO	)G		
PROJECT: BROW	VARD COUNTY				CORE NO : VC96 - 46_		
COORDINATES	DATE: OCT 0	1006		WATER DERT	H: 25.5 Ft. NGVD		
<u>COORDINATES:</u> E = 804277	START TIME:			DRILLER:	ROSSCORE (R. POLLACK)		
		END TIME: 1830			MDA		
CORE DIAMETER		ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP	DEMARKS
		FT(-)	DEI III	LEGEND		NO.	REMARKS
LENGTH OF BAR	REL: 15.0	25.5'	0.0				
PENETRATION D	EPTH: 7.0'			1 1			
LENGTH RECOV		26.01		^ ~	SHELL FRAGMENT		1.37 Phi
PERCENT RECOVER		26.8'_				_1 1.3'	0.39 mm 2.1% Silt
PERCENT RETAINE	D: 81 %			1 1			
SUPPORT VESS	EL: SUEBEE III			1	GRAY (5Y 5/1) MEDIUM TO		
POSITIONING: [	DIFFERENTIAL		4.0	1 1	COARSE GRAINED SAND WITH SHELL HASH		
	GPS	30.0'_		1 1		2	0.84 Phi 0.56 mm
WEATHER:		00.0_	<b> </b>			4.5'	1.8% Silt
_WIND:							
DIR.: NE SPEED: 0-5	VΤ			1 1			
	KI	32.5'_	7.0	~			
<u>WAVES</u> DIR.: NE			8.0		PENETRATION TO 7,0 FT.		
HEIGHT: 0-1	FT				15 MINUTES		
LOGGED BY: SK	/ MA				NO PENETRATION FOR LAST 5 MINUTES		
ANALYSIS BY: SI DATE: OCT.1996							
ANALYSIS METH							
VISUAL LOGG				-			
MECHANICAL	SIEVE		12.0				
SAND	SHELL FRAG.						
	^^			_			
CORAL FRAG.	SHELL HASH						
ΩΩΩ	~ ~						
ΩΩ	~			_			
	ROCK/RUBBLE		16.0				
	XXX		1				
	ALCULATED USING	1000	III MARIE				

			VIBRA	ACORE LO	 DG		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA I	CORE NO : VC96 - 47		
COORDINATES:	DATE: OCT. 1	7, 1996		WATER DEPT	H: 28.5 Ft. NGVD		
E = 804703	START TIME :	1842		DRILLER:	ROSSCORE (R. POLLACK)		
N = 723261	END TIME:	1854		CLIENT REP:	MDA		
CORE DIAMETER	2: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	28.5'	0.0				
PENETRATION D	EPTH: 9.6'	29.0'_	0.0	7 7	DK GRAY (5Y 4/1) MED. GRAINED SAND WITH SHELL HASH	_1 0.5'	1.26 Phi 0.42 mm
LENGTH RECOVER PERCENT RECOVER LENGTH RETAIN	RED: 90 %		0.5	7 7 7	SAILD WITH SHELL HASH	0.3	1.1% Silt
PERCENT RETAINED	D: 90 %				GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH SHELL HASH		1.46 Phi
POSITIONING: D		32.0'_	4.0	7 7 7	5.1525 111.55.1	_2 3.5'	0.36 mm 1.6% Silt
WEATHER:			4.9 5.2	~ XXX	DK. GRAY (5Y 4/1) MEDIUM SAND RUBBLE LAYER		
_WIND: DIR.: NE SPEED: 0-5	кт	35.5'	6.0	X X X	DARK GRAY (5Y 4/1) MEDIUM		1.16 Phi
WAVES DIR.: NE	FT	00.0	8.0	~ ~ ~ XXX	GRAINED SAND WITH SHELL HASH	7.0'	0.45 mm 1.6% Silt
HEIGHT: 0-1	FI	37.1'	8.6	$\begin{array}{c c} & & & & \\ & & & & \\ \hline & & & & & \\ \hline & & & &$	RUBBLE LAYER		
LOGGED BY: SK ANALYSIS BY: SK	<	38.1'	9.6_	-	NO SAMPLE RECOVERED		
DATE: OCT.1996  ANALYSIS METH  VISUAL LOGGI  MECHANICAL	I <u>OD:</u> ING		-		PENETRATION TO 9.6 FT. 12 MINUTES NO PENETRATION FOR LAST 5 MINUTES		
SAND	SHELL FRAG.		12.0	-			
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH		-				
	X X X X X X X X X X X X X X X X X X X		16.0				
<u> </u>	ALCULATED USING	1					



FT (-)   34.0'   0.0				VIBRA	ACORE LO	DG		
E = 803751   START TIME : 1628   DRILLER: ROSSCORE (R. POLLACK)     N = 713297   END TIME : 1650   CLIENT REP: JLA	PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 12		
N = 713297   END TIME : 1650   CLIENT REP: JLA			•		WATER DEPT			
CORE DIAMETER: 4.0"   ELEV.   DEPTH   LEGEND   DESCRIPTION   SAMP   REMARK   NO.					DRILLER:	ROSSCORE (R. POLLACK)		
FT (-)   34.0'   0.0	N = 713297	END TIME :	1650		CLIENT REP:	JLA	T	<u> </u>
SAID   SHILL FRAG.   SHELL FRAG.   SHELL FRAG.   SHELL FRAG.   SHELL FRAG.   SHELL FRAG.   CORAL FRAG.   SHELL FRAG.   SHELL FRAG.   CORAL				DEPTH	LEGEND	DESCRIPTION	1	REMARKS
LENGTH RECOVERED: 10.8' PERCENT RECOVERED: 100% LENGTH RETAINED: 74 %  SUPPORT VESSEL: SUEBEE III  POSITIONING: DIFFERENTIAL GPS  WEATHER:  WIND: DIR: NE SPEED: 0 - 5 KT.  WAVES DIR: VAR. HEIGHT 0 - 1 FT.  LOGGED BY: SK / MA ANALYSIS BY: SK DATE: SEPT.1996  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  AAA  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  SAND SHELL FRAG.  SHELL FRAG.			34.0'	0.0	~ ~			
POSITIONING: DIFFERENTIAL GPS  WEATHER:  WIND: DIR.: NE SPEED: 0 - 5 KT.  WAVES DIR.: VAR. HEIGHT 0 - 1 FT.  LOGGED BY: SK / MA ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  12.0  MEDIUM GRAINED SAND WITH SHELL HASH  CORAL FRAGMENT (3.2*)  7.0'  1.51 PP 0.35 mr 2.0% SI  2.0% SI  PENETRATION TO 10.8 FT. 20 MINUTES NO PENETRATION FOR LAST 5 MINUTES  LOST 1.4' OF SAMPLE DURING RECOVERY OF CORE	PERCENT RECOVER LENGTH RETAIN	RED: 100 % ED: 8.0'	35.0'		1 1 1		-	1.67 Phi 0.31 mm 1.5% Silt
WIND:   DIR.: NE   SPEED: 0 - 5 KT.   41.0' -   -   -   -   -     -	POSITIONING: [	DIFFERENTIAL		4.0	1 1	MEDIUM GRAINED		
WAVES   DIR.: VAR.   HEIGHT 0-1 FT.   42.0'   8.0   Ω   CORAL FRAGMENT (3.5')   7.0'   2.0% Si   CORAL FRAGMENT (2.5')   7.0'   2.0% Si   2.	WIND: DIR.: NE	ΚΤ			1 1 1			151 W
ANALYSIS BY: SK DATE: SEPT.1996  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  12.0  PENETRATION TO 10.8 FT. 20 MINUTES NO PENETRATION FOR LAST 5 MINUTES  LOST 1.4' OF SAMPLE  DURING RECOVERY OF CORE	_WAVES DIR.: VAR.			8.0	Ω		1	0.35 mm 2.0% Silt
VISUAL LOGGING  MECHANICAL SIEVE  12.0  PENETRATION TO 10.8 FT.  20 MINUTES  NO PENETRATION FOR LAST  5 MINUTES  LOST 1.4' OF SAMPLE  CORAL FRAG.  SHELL HASH  Ω Ω Ω  PENETRATION TO 10.8 FT.  20 MINUTES  NO PENETRATION FOR LAST  5 MINUTES  LOST 1.4' OF SAMPLE  DURING RECOVERY OF CORE	ANALYSIS BY: SH	<	-					
SAND SHELL FRAG.  A A A CORAL FRAG. SHELL HASH	VISUAL LOGG	ING	44.8'_					
CORAL FRAG. SHELL HASH $\Omega \Omega \Omega$ $\sim \sim$ DURING RECOVERY OF CORE	SAND	^ ^		12.0		NO PENETRATION FOR LAST		
	ΩΩΩ	SHELL HASH			-			
XXXX XXXX		XXXX		16.0				

				ACORE LO	· <del>-</del>			
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 14			
COORDINATES:	DATE: SEPT.	14, 1996		WATER DEPT	WATER DEPTH: 37.0 Ft. NGVD			
E = 803438	START TIME :	0845		DRILLER:	ROSSCORE (R. POLLACK)			
N = 707615	END TIME :	0858		CLIENT REP:	JLA	<b></b>		
CORE DIAMETER	: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARK	
LENGTH OF BAR	REL: 20.0'	37.0'	0.0					
PENETRATION D	EPTH: 9.7'	37.0	0.0					
LENGTH RECOVE PERCENT RECOVER LENGTH RETAIN PERCENT RETAINED	RED: 100 % ED: 7.5'	38.5'_		٨	SHELL FRAGMENT (1.5*)	_1 1.5'	1.94 Phi 0.26 mm 1.9% Silt	
SUPPORT VESSE POSITIONING: [			4.0	G	CORAL FRAGMENT (1.5°)			
WEATHER:	GPS				GRAY (5Y/5/1) MEDIUM GRAINED SAND			
WIND: DIR.: NE SPEED: 0-5  WAVES DIR.: VAR. HEIGHT 0-1	·	44.0'	8.0			2 7.0'	1.74 Phi 0.30 mm 1.9% Sil	
LOGGED BY: SK ANALYSIS BY: SK DATE: SEPT.1996	(	46.7'_	9.7_					
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG		12.0		PENETRATION TO 9.7 FT. 13 MINUTES NO PENETRATION FOR LAST 4 MINUTES			
SAND	SHELL FRAG.			-				
$\Omega$ $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH							
	X X X X X X X X X X X X X X X X X X X		16.0					

COASTAL PLANNING & ENGINEERING, INC.

			VIBRA	ACORE LO	OG			
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 17			
COORDINATES:	DATE: SEPT.	12, 1996		WATER DEPTH: 32.0 Ft. NGVD				
E = 803022	START TIME:	1350		DRILLER: ROSSCORE (R. POLLACK)				
N = 703425	END TIME :	1410		CLIENT REP:	JLA			
CORE DIAMETER	: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARF	REL: 15.0'	32.0'	0.0			140.		
PENETRATION DI	EPTH: 7.0'	32.0	0.0	_			*	
LENGTH RECOVE PERCENT RECOVER LENGTH RETAIN PERCENT RETAINED	RED: 100 % ED: 7.0'	33.5'_		1 1		_1 1.5'	1.62 Phi 0.32 mm 1.6% Silt	
SUPPORT VESSE	DIFFERENTIAL		4.0	1 1	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND WITH SHELL HASH			
WEATHER:  _WIND: DIR.: NE SPEED: 0-5	GPS KT.	37.5'_ 39.0'_	7.0_		·	_2 5.5'	1.65 Phi 0.32 mm 1.7% Silt	
_WAVES DIR.: VAR. HEIGHT 0-1			8.0		PENETRATION TO 7.0 FT.  20 MINUTES  NO PENETRATION FOR LAST			
LOGGED BY: SK ANALYSIS BY: SK DATE: SEPT.1996	<			-	5 MINUTES			
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG		12.0	-				
SAND	SHELL FRAG.			-				
CORAL FRAG. $\Omega \Omega \Omega$ $\Omega \Omega$	SHELL HASH			-				
	ROCK/RUBBLE  X X X X  X X X		16.0					
	ALCULATED USING	MOMENT	) AETHOD					

			VIBRA	ACORE LO	)G				
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 26				
COORDINATES:	DATE: OCT. 2	0, 1996		WATER DEPT	H: 40.0 Ft. NGVD		***************************************		
E = 803388	START TIME :	0740		DRILLER:	ROSSCORE (R. POLLACK)				
N = 702641	END TIME:	0750		CLIENT REP:	MDA		p**		
CORE DIAMETER	: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR		40.0'	0.0						
PENETRATION DI	EPTH: 8.9'						1.99 Phi		
PERCENT RECOVER LENGTH RETAIN	LENGTH RECOVERED: 8.9' PERCENT RECOVERED: 100 % LENGTH RETAINED: 8.9' PERCENT RETAINED: 100 %			1 1 1	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH	1.0'	0.25 mm 1.8% Silt		
SUPPORT VESSE	EL: SUEBEE III		3.2_	- Ω					
POSITIONING: E	DIFFERENTIAL GPS	44.0'_	4.0	ΩΩ	DK.GRAY (5Y 4/1), MED. SAND W/ 50% CORAL FRAG.	_2	1.90 Phi 0.27 mm		
WEATHER:  _WIND:  DIR.: NORT				1 1 1	DARK GRAY (5Y 4/1) ,MEDIUM GRAINED SAND WITH SHELL HASH	4.0'	1.8% Silt		
SPEED: 10 - 1		47.0'	47.0'		7.5_	1 1 0		3 7.0'	1.81 Phi 0.28 mm 2.0% Silt
DIR.: NORT HEIGHT 1-3			8.0	Ω Ω Ω Ω	DARK GRAY (5Y 4/1), MEDIUM GRAINED SD W/ CORAL FRAG. RUBBLE LAYER				
		48.9'_	8.9	$\hat{\mathbf{x}}$ $\hat{\mathbf{x}}$ $\hat{\mathbf{x}}$	RUBBLE LATER				
LOGGED BY: SK ANALYSIS BY: SK DATE: OCT.1996			_		PENETRATION TO 8.5 FT. 10 MINUTES NO PENETRATION FOR LAST				
ANALYSIS METH					5 MINUTES				
MECHANICAL :			12.0						
SAND	SHELL FRAG.								
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH					1			
	ROCK/RUBBLE  X X X X  X X X		16.0						
NOTE A PANIMAS CA	LCULATED USING	MOMENT	METHOD						

VIBRACORE LOG									
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 27	·			
COORDINATES:	DATE: SEPT.	21, 1996		WATER DEPTH: 34.5 Ft. NGVD					
E = 803019	START TIME :	1241		DRILLER:	ROSSCORE (R. POLLACK)				
N = 702226	END TIME :	1256	Γ	CLIENT REP:	JLA	<del>,</del>	·		
CORE DIAMETER	: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	34.5'	0.0						
PENETRATION DI	EPTH: 12.0'	_ <u></u>							
LENGTH RECOVE PERCENT RECOVEF LENGTH RETAIN: PERCENT RETAINED	RED: 100 % ED: 12.0'	36.5'_		1 1 1		_1 2.0'	1.74 Phi 0.30 mm 1.7% Silt		
SUPPORT VESSE POSITIONING: [			4.0						
WEATHER:  WIND:  DIR.: EAST  SPEED: 0-5		40.5'_		1 1 1	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH	_2 6.0'	1.42 Phi 0.37 mm 1.9% Silt		
WAVES DIR.: EAST HEIGHT 0-1	FT.		8.0	1 1 1					
LOGGED BY: SK ANALYSIS BY: SK DATE: SEPT.1996 ANALYSIS METH	( 6 <u>OD:</u>	44.5'_				_3	1.70 Phi 0.31 mm 1.9% Silt		
VISUAL LOGGI MECHANICAL		46.5'	-	1 1					
SAND	SHELL FRAG.	40.5_	12.		PENETRATION TO 12.0 FT. 15 MINUTES NO PENETRATION FOR LAST				
CORAL FRAG. ΩΩΩ ΩΩ	SHELL HASH		_	<b>-</b>	5 MINUTES				
	ROCK/RUBBLE  XXXX  XXX		16.0						
NOTE LEAVING C	ALCULATED USING	MONTENE	AETHOD						

			VIBR/	ACORE LO					
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 28				
COORDINATES:	DATE: SEPT.:	21, 1996		WATER DEPTH: 31.5 Ft. NGVD					
E = 802906	START TIME :	1443		DRILLER:	ROSSCORE (R. POLLACK)				
N = 702880	END TIME :	1459		CLIENT REP:	JLA				
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	31.5'	0.0						
PENETRATION D	EPTH: 8.0'	01.5	0.0	~ ~					
PERCENT RECOVER	LENGTH RECOVERED: 8.0' PERCENT RECOVERED: 100 % LENGTH RETAINED: 7.0' PERCENT RETAINED: 88 %			1 1		1.5'	1.66 Phi 0.32 mm 1.9% Silt		
POSITIONING: [	SUPPORT VESSEL: SUEBEE III POSITIONING: DIFFERENTIAL		4.0		~ DARK GRAY (5Y 4/1), MEDIUM ~ GRAINED SAND WITH				
WEATHER:WIND:	GPS	36.5'		7 7 7	SHELL HASH	2 5.0'	1.75 Phi 0.30 mm 2.2% Silt		
DIR.: SE SPEED: 10 - 1	5 KT.			7 7					
DIR.: SE HEIGHT 2-3	FT.	39.5'_	8.0	~	PENETRATION TO 8.0 FT.				
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	K		_		16 MINUTES NO PENETRATION FOR LAST 5 MINUTES				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING								
SAND	SHELL FRAG.		12.0	-					
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH		_						
	X X X X X X X X X X X X X X X X X X X		16.0						
	ALCULATED USING	MONGRAFI	WETHOD						

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD

PROJECT: BROW			VIBR/	ACORE LO	)G				
	ARD COUNTY	BORRO	W AREA	BA II	CORE NO : VC96 - 29		··		
COORDINATES:	DATE: SEPT. 2	21, 1996		WATER DEPTH: 34.0 Ft. NGVD					
E = 803102	START TIME :	1530		DRILLER:	ROSSCORE (R. POLLACK)				
N = 704395	END TIME :	1541		CLIENT REP:	JLA				
CORE DIAMETER:	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BARR	REL: 15.0'	34.0'	0.0			110.			
PENETRATION DE	PTH: 11.5'	34.0	0.0						
LENGTH RECOVER PERCENT RECOVERING RETAINED	ED: 100 % ED: 10.3'	35.5'_		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_1 1.5'	1.52 Phi 0.35 mm 2.2% Silt		
SUPPORT VESSE POSITIONING: D		38.0'_	4.0	1 1 1	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND WITH SHELL HASH	_2 4.0'	1.64 Phi 0.32 mm 1.8% Silt		
WEATHER:				1 1					
WIND: DIR.: SE SPEED: 10 - 15	5 KT.			1 1					
WAVES DIR.: SE HEIGHT 2-3	FT.	42.0'_	8.0	Ω	CORAL FRAGMENTS (3.0° - 2.0°)	_3 8.0'	1.42 Phi 0.37 mm 1.8% Silt		
LOGGED BY: SK / ANALYSIS BY: SK DATE: SEPT.1996	•			Ω Ω	CORAL FRAGMENTS (3.0* - 1.5*)				
ANALYSIS METHO VISUAL LOGGIN MECHANICAL S	NG	45.5'_	11.5_						
SAND	SHELL FRAG.		12.0	-	PENETRATION TO 11.5 FT.  11 MINUTES  NO PENETRATION FOR LAST 5 MINUTES				
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH				S MARTO I ES				
	X X X X X X X X X X X X X X X X X X X		16.0						

## **VIBRACORE LOG** PROJECT: BROWARD COUNTY BORROW AREA BAIL CORE NO: VC96 - 30 COORDINATES: DATE: SEPT. 21, 1996 WATER DEPTH: 31.0 Ft. NGVD START TIME: 1820 DRILLER: ROSSCORE (R. POLLACK) E = 8030251830 CLIENT REP: N = 705250END TIME : JLA 4.0" ELEV. DEPTH **LEGEND DESCRIPTION** SAMP REMARKS CORE DIAMETER: NO. FT(-) LENGTH OF BARREL: 15.0' 31.0' 0.0 PENETRATION DEPTH: 7.0' LENGTH RECOVERED: 7.0' 1.84 Phi PERCENT RECOVERED: 100 % 33.0' 0.28 mm 1 1.5' 1.3% Silt DARK GRAY (5Y/4/1) LENGTH RETAINED: MEDIUM GRAINED SAND PERCENT RETAINED: SUPPORT VESSEL: SUEBEE III POSITIONING: DIFFERENTIAL 4.0 **GPS** SHELL FRAGMENTS (2.0") 1.60 Phi 36.0' --Ω -2 0.33 mm WEATHER: CORAL FRAGMENTS (1.5" - 1.0") 5.0' 1.6% Silt WIND: DIR.: ΝE SPEED: 5-10 KT 38.0' 7.0_ WAVES 0.8 PENETRATION TO 7.0 FT. DIR.: SE HEIGHT 0-1 FT. 10 MINUTES NO PENETRATION FOR LAST LOGGED BY: SK / MA 5 MINUTES ANALYSIS BY: SK DATE: SEPT.1996 **ANALYSIS METHOD:** VISUAL LOGGING MECHANICAL SIEVE 12.0 SHELL FRAG. SAND CORAL FRAG. ΩΩΩ ΩΩ ROCK/RUBBLE XXXX 16.0 X X XNOTE: MEAN WAS CALCULATED USING MOMENT METHOD

			VIBRA	ACORE LO	og.		
PROJECT: BROV	VARD COUNTY				CORE NO : VC96 - 31		
COORDINATES:	DATE: OCT. 4	, 1996		WATER DEPT	H: 35.0 Ft. NGVD		
E = 803309	START TIME :	0757		DRILLER:	ROSSCORE (R. POLLACK)		
N = 705984	END TIME :	0807		CLIENT REP:	NB	<del>, , , , , , , , , , , , , ,</del>	
CORE DIAMETER	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	35.0'	0.0				
PENETRATION D	EPTH: 7.4'			~ ~			1.87 Phi
LENGTH RECOVI PERCENT RECOVER LENGTH RETAIN PERCENT RETAINED	RED: 100 % ED: 7.4'	36.0 '		7 7 7		1 1.0'	0.27 mm 1.2% Silt
SUPPORT VESSE				~ ~	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND		
POSITIONING: [	GPS		4.0	7 7	WITH SHELL HASH		
WEATHER:		40.5'		7 7		2	1.72 Phi 0.30 mm
<u>WIND:</u> DIR.: SE SPEED: 10 - 1	5 KT.		_	1 1		5.5'	1.5% Silt
WAVES DIR.: ESE		42.4' _	7.4'_	^ ^	SHELL FRAGMENTS (1.0*)		
HEIGHT 2-3	FI.				PENETRATION TO 7.4 FT. 10 MINUTES		
LOGGED BY: SK ANALYSIS BY: SK DATE: OCTOBER	<				NO PENETRATION FOR LAST 4 MINUTES		
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG						
SAND	SHELL FRAG.		12.0				
CORAL FRAG. ΩΩΩ	SHELL HASH						
	ROCK/RUBBLE  XXXX  XXX		16.0				
NOTE A GANGUAS C	ALCULATED USING	MOMENT	METHOD			<u> </u>	

		·					
PROJECT: BROW	APD COUNTY			ACORE LO	_		***
PROJECT, BROW	I	BONNO	V ANEA	DA II	CORE NO : VC96 - 32		
COORDINATES:	DATE: OCT. 4	, 1996		WATER DEPT	H: 32.5 Ft. NGVD		
E = 803178	START TIME :	1116		DRILLER:	ROSSCORE (R. POLLACK)		
N = 706656	END TIME :	1127	<u> </u>	CLIENT REP:	CK	,	
CORE DIAMETER	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP	REMARKS
LENGTH OF BAR	REL: 15.0'					NO.	
PENETRATION D	EPTH: 7.0'	32.5'	0.0	~ ~			
LENGTH RECOVE PERCENT RECOVEF LENGTH RETAIN PERCENT RETAINED	RED: 100 % ED: 6.7'	33.5'		1 1 1	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND	1 1.0'	1.84 Phi 0.28 mm 1.2% Silt
SUPPORT VESSE POSITIONING: E		36.0'_	4.0	1 1 1	WITH SHELL HASH	_2 3.5'	1.55 Phi 0.34 mm 1.6% Silt
WEATHER:				- Ω -	CORAL FRAGMENT (1.5°)		1.63 Phi
<u>WIND:</u> DIR.: ENE SPEED: 10 - 1	5 KT.	38.5'_	7.0'_	^ ~ ~	SHELL FRAGMENT (2.0")	_3 6.0'	0.32 mm 1.8% Silt
<u>WAVES</u> DIR.: EAST HEIGHT 2-4			8.0		PENETRATION TO 7.0 FT.  11 MINUTES  NO PENETRATION FOR LAST		
LOGGED BY: SK ANALYSIS BY: SK DATE: OCTOBER	(				4 MINUTES		
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG		12.0				
SAND	SHELL FRAG.						
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH			  -  -  -			
	X X X X X X X X X X X X X X X X X X X		16.0				
	ALCULATED USING	) (O) (E) E	) CETTION				

			VIBR#	ACORE LO	)G			
PROJECT: BROW	VARD COUNTY				CORE NO : VC96 - 33	~		
COORDINATES:	DATE: OCT. 4	, 1996		WATER DEPTH: 31.5 Ft. NGVD				
E = 803298	START TIME: 1550			DRILLER:	ROSSCORE (R. POLLACK)			
N = 708268	END TIME :	1604		CLIENT REP:	СК	TT		
CORE DIAMETER	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	31.5'	0.0					
PENETRATION D	EPTH: 7.5'	01.0	0.0				1.83 Phi	
LENGTH RECOVE PERCENT RECOVER LENGTH RETAIN	RED: 81 % ED: 4.7'	32.5'		7 7		-1 1.0'	0.28 mm 1.4% Silt	
	PERCENT RETAINED: 63 %  SUPPORT VESSEL: SUEBEE III			1 1	GRAY (5Y/5/1) MEDIUM GRAINED SAND WITH SHELL HASH	2	1.70 Phi 0.31 mm	
POSITIONING: [	DIFFERENTIAL GPS		4.0			3.4'	1.6% Silt	
WEATHER:				7 1				
<u>WIND:</u> DIR.: EAST SPEED: 15 - 2		37.6'_	6.1'_	Α	SHELL FRAGMENT (2.0°)  NO SAMPLE RECOVERED			
<u>waves</u> Dir.: East	-	39.0'_	7.5' <u>_</u> 8.0					
HEIGHT 4-6		-			PENETRATION TO 7.5 FT.  14 MINUTES			
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	<		_		NO PENETRATION FOR LAST 5 MINUTES			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0					
SAND	SHELL FRAG.			-				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		_					
	ROCK/RUBBLE  XXXX  XXX		16.0					
	ALCULATED USING	L) (O) (F)	NETHOD					

			VIBRA	ACORE LO	)G			
PROJECT: BROV	VARD COUNTY				CORE NO : VC96 - 34		***************************************	
COORDINATES:	DATE: OCT. 4	, 1996		WATER DEPTH: 35.2 Ft. NGVD				
E = 803686	START TIME :	1511		DRILLER:	ROSSCORE (R. POLLACK)			
N = 708968	END TIME :	1524		CLIENT REP:	СК			
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	35.2'	0.0					
PENETRATION D	EPTH: 7.0'	33.2	0.0	Ω	LT. OLIVE GRAY SD W/ CORAL FRAG.		~~	
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % ED: 6.5'	36.2'		1 1 1	·	1.0'	1.74 Phi 0.30 mm 1.6% Silt	
SUPPORT VESSI	SUPPORT VESSEL: SUEBEE III			1 1	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND WITH SHELL HASH		. ·	
POSITIONING: E	GPS	39.7'_	4.0	1 1		_2	1.65 Phi 0.32 mm	
WEATHER:				1 1		4.5'	1.4% Silt	
<u>WIND:</u> DIR.: EAST SPEED: 15 - 2				O				
_WAVES	o Ki.	42.2'_	7.0'_		CORAL FRAGMENT (2.5") RUBBLE LAYER			
DIR.: EAST HEIGHT 4-6			8.0		PENETRATION TO 7.0 FT. 13 MINUTES			
LOGGED BY: SK ANALYSIS BY: SK DATE: OCTOBER	<				NO PENETRATION FOR LAST 5 MINUTES			
ANALYSIS METH								
VISUAL LOGGI MECHANICAL	NG							
SAND	SHELL FRAG.		12.0					
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH							
	ROCK/RUBBLE  XXXX  XXX		16.0					
NOTE: MEAN WAS CA	ALCULATED USING	MOMENT	METHOD					

			VIBRA	ACORE LO	OG		
PROJECT: BROV	VARD COUNTY				CORE NO : VC96 - 35		
COORDINATES:	DATE: OCT. 1	0, 1996		WATER DEPT	H: 31.5 Ft. NGVD		
E = 803540	START TIME :	1004		DRILLER:	ROSSCORE (R. POLLACK)		
N = 711130	END TIME :	1027		CLIENT REP:	MDA		
CORE DIAMETER	4.0"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP	REMARKS
LENGTH OF BAR	REL: 15.0'	FT (-)				NO.	
PENETRATION D	EPTH: 10.0'	31.5'	0.0	~ ~			·
LENGTH RECOVE PERCENT RECOVEF LENGTH RETAIN PERCENT RETAINED	RED: 92 % ED: 8.6'	32.5'		1 1 1		1.0'	1.83 Phi 0.28 mm 1.5% Silt
SUPPORT VESSE POSITIONING: [	DIFFERENTIAL		4.0	1 1	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH		
WEATHER:	GPS	36.5'		1 1		2 5.0'	1.78 Phi 0.29 mm 1.8% Silt
WIND: DIR.: NORT SPEED: 5 - 10				1 1			
<u>WAVES</u> DIR.: WEST		39.5'	8.0		CORAL FRAGMENT (2.0 °)		
HEIGHT 1-2	FT.			X X X X X	RUBBLE LAYER		
LOGGED BY: SK		40.7'_	9.2	X X X	NO SAMPLE RECOVERED	-	
DATE: OCT.1996		41.5'_	10.0		100, 200	4	
ANALYSIS METH					PENETRATION TO 10.0 FT. 23 MINUTES		
MECHANICAL	SIEVE		12.0		NO PENETRATION FOR LAST 5 MINUTES		
SAND	SHELL FRAG.						
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH						
	ROCK/RUBBLE  X X X X  X X X		16.0				
- Vom 1 m 1 V V V V G G	LCULATED USING	V() ([]	) (ETHOR				

			VIDD	ACORE LO			
PROJECT: BROV	VARD COUNTY	BORRO			CORE NO : VC96 - 36		
THOUSE THE		00,110			OOKE NO . VC30 - 30	wa	
COORDINATES:	DATE: OCT. 4	, 1996		WATER DEPT	H: 34.0 Ft. NGVD		
E = 803730	START TIME :	1815		DRILLER:	ROSSCORE (R. POLLACK)		
N = 710549	END TIME :	1829	F	CLIENT REP:	CK	T	
CORE DIAMETER	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP	REMARKS
LENGTH OF BAR	REL: 15.0'					NO.	
PENETRATION D	EPTH: 9.4'	34.0'	0.0	~ ~			
LENGTH RECOVE PERCENT RECOVEF LENGTH RETAIN PERCENT RETAINED	RED: 96 % ED: 8.2'	35.0'		1 1 1 1 1 1 1 1 1 1 1 1	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH	1 1.0'	1.66 Phi 0.32 mm 1.3% Silt
SUPPORT VESSE			4.0	7 7	SHELL FRAGMENT (1.0°)		1 CC DL:
	GPS	38.5'_		7	SHELL FRAGMENT (1.0")	_2	1.66 Phi 0.32 mm
WEATHER:				7 7		4.5'	1.7% Silt
<u>WIND:</u> DIR.: EAST			_	Ω ~	CORAL FRAGMENT (1.5")		
SPEED: 10 - 1		44.01		Ω	CORAL FRAGMENT (1.5")		1.70 Phi
WAVES DIR.: EAST		41.2'_	8.0	1 1		_3 7.2'	0.31 mm 1.9% Silt
HEIGHT 2-4	rı. 			1 1			
LOGGED BY: SK		43.0'_ 43.4'	9.0	~ ~	NO SAMPLE RECOVERED	-	
DATE: OCTOBER	2,1996	-	]				
ANALYSIS METH					PENETRATION TO 9.4 FT.  14 MINUTES		
VISUAL LOGGI MECHANICAL			12.0		NO PENETRATION FOR LAST 5 MINUTES		
SAND	SHELL FRAG.						
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH						
	ROCK/RUBBLE  XXXX  XXX		16.0				
	LCULATED USING	) (O) (TD) (T					

		<del></del>	VIDD	ACORE I C		**************************************						
PROJECT: BROW	VIBRACORE LOG  PROJECT: BROWARD COUNTY BORROW AREA BA II CORE NO: VC96 - 37											
	T			<u> </u>								
COORDINATES:					H: 33.0 Ft. NGVD							
	START TIME :			DRILLER:	ROSSCORE (R. POLLACK)							
	END TIME :	0754		CLIENT REP:	JLA							
CORE DIAMETER	4.0"	FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS					
LENGTH OF BAR	REL: 15.0'	33.0'	0.0									
PENETRATION D	EPTH: 7.5'		5.0	~ ~								
LENGTH RECOVE	RED: 85 %	34.0'		7 7		1 1.0'	1.90 Phi 0.27 mm 1.6% Silt					
PERCENT RETAINED				7 1								
SUPPORT VESSE	EL: SUEBEE III			7 7	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH		1.95 Phi					
POSITIONING: [	DIFFERENTIAL GPS	37.0'_	4.0	~ ~		_2 4.0'	0.26 mm 1.4% Silt					
WEATHER:				7 7								
WIND: DIR.: SSW		39.4'_	6.4_									
SPEED: 5 - 10 WAVES	KI.	40.5'	7.5	-	NO SAMPLE RECOVERED							
DIR.: VAR. HEIGHT 0-1			8.0		PENETRATION TO 7.5 FT.							
LOGGED BY: SK	/ MA			1	10 MINUTES NO PENETRATION FOR LAST							
ANALYSIS BY: SH DATE: OCT.1996	<		_		5 MINUTES							
ANALYSIS METH VISUAL LOGGI	ING											
MECHANICAL			12.0									
SAND	SHELL FRAG.											
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH											
	ROCK/RUBBLE  XXXX  XXX		16.0									
Nome a gravity a g	ALCULATED USING	MONGANT	AGETTION									

			VIBRA	ACORE LO	)G		v
PROJECT: BROV	VARD COUNTY				CORE NO : VC96 - 39		
COORDINATES:	DATE: OCT.9	, 1996	**************************************	WATER DEPT	H: 32.2 Ft. NGVD		***************************************
E = 803651	START TIME :	1226		DRILLER:	ROSSCORE (R. POLLACK)		
N =712330	END TIME :	1237	Γ	CLIENT REP:	MDA		P
CORE DIAMETER	4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	32.2'	0.0				
PENETRATION D	EPTH: 9.0°		0.0	~ ~	DARK GRAY (5Y 5/1), MEDIUM		1.78 Phi
PERCENT RECOVER	RED: 100 %	33.2'		7 7	GRAINED SAND WITH SHELL HASH	1 1.0'	0.29 mm 1.7% Silt
PERCENT RETAINED				~ ^ ~	SHELL FRAGMENT (1.5°)		
SUPPORT VESSE	EL: SUEBEE III			~ ~			
POSITIONING: E	DIFFERENTIAL GPS		4.0	, ,			
WEATHER:				~ ~	SHELL FRAGMENT (1.5*)		
WIND: DIR.: NW	let.	38.2'_		1 1		_2 6.0'	1.76 Phi 0.29 mm 1.7% Silt
SPEED: 0 - 5 WAVES	KI.			7 7			
DIR.: VAR. HEIGHT 0-1			8.0	- ~ Ω	CORAL FRAGMENT (2.0°)		
LOGGED BY: SK		41.2'_	9.0				
DATE: OCT.1996			_		PENETRATION TO 9.0 FT. 11 MINUTES		100 to 10
ANALYSIS METH VISUAL LOGGI	NG			-	NO PENETRATION FOR LAST 5 MINUTES		
MECHANICAL			12.0	-			
SAND	SHELL FRAG.			-			
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH						
	X X X X X X X X X X X X X X X X X X X		16.0	_			
NOTE > T-> X X X X X X X X X X X X X X X X X X X	ALCULATED USING	MOMENT	METTION				



		,	VIBR/	ACORE LO	 DG	•	
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA III	CORE NO : VC96 - 13		
COORDINATES:	DATE: SEPT.	14, 1996		WATER DEPT	H: 74.0 Ft. NGVD		
E = 805331	START TIME :	1520		DRILLER:	ROSSCORE (R. POLLACK)		
N = 708908	END TIME :	1540		CLIENT REP:	JLA		
CORE DIAMETER	d: 4.0"	ELEV. FT (-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARF	REL: 15.0'	74.0'	0.0				
PENETRATION DI		74.5'_		1	LT. OLIVE GRAY (5Y/6/2) FINE GRAINED	_1	2.23 Phi 0.21 mm
LENGTH RECOVE	RED: 63 %		1.2_	1 1	SAND WITH SILT	0.5'	9.7% Silt
LENGTH RETAIN	D: 63 %			7 7	DARK GRAY (5Y/5/1) COARSE GRAINED SAND		
SUPPORT VESSE POSITIONING: D		77.8'_	4.0	7 7 7	WITH SHELL HASH	_2	0.41 Phi 0.75 mm 3.1 % Silt
	GPS			XXX XXX	RUBBLE LAYERS		
WEATHER: _WIND:							
DIR.: NE SPEED: 0-5	KT.			1 1	LT. GRAY (5Y 7/2) MEDIUM GRAINED SAND		
<u>WAVES</u> DIR.: VAR. HEIGHT 0-1		82.0'_	82.0' 8.0	~ ~ ~	WITH SHELL HASH	_3 8.0'	1.41 Phi 0.38 mm 4.9% Silt
LOGGED BY: SK ANALYSIS BY: Sk		83.2'_	9.2_				
DATE: SEPT.199			_				
ANALYSIS METH VISUAL LOGGI MECHANICAL	ING						
SAND	SHELL FRAG.		12.0	1	NO SAMPLE RECOVERED		
	^			_			
CORAL FRAG. $\Omega \Omega \Omega$ $\Omega \Omega$	SHELL HASH	88.5'	14.5	-			
SILT	ROCK/RUBBLE		_		PENETRATION TO 14.5 FT. 20 MINUTES		
1111	XXXX		16.0	-	NO PENETRATION FOR LAST 5 MINUTES		
	ALCULATED USING	11 (0) (7)	T) ÆWIOD				

			VIBRA	ACORE LO	)G		
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	BA III	CORE NO : VC96 - 15		
COORDINATES:	DATE: SEPT.	14, 1996		WATER DEPT	H: 66.0 Ft. NGVD		
E = 806410	START TIME :	1250		DRILLER:	ROSSCORE (R. POLLACK)		
N = 707311	END TIME:	1305		CLIENT REP:	NB	<del></del>	
CORE DIAMETER	R: 4.0"	ELEV. FT (-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	66.0'	0.0				
PENETRATION D	EPTH: 10.6'	00.0	0.0				0.06 771
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 66 % IED: 6.9'	67.0'			GRAY (5Y/5/1) FINE GRAINED SAND	1 1.0'	2.26 Phi 0.21 mm 3.3% Silt
SUPPORT VESS POSITIONING: [	EL: SUEBEE III		4.0	7 7	GRAY (5Y 5/1) FINE GRAINED SAND WITH SHELL HASH		
	GPS		4.4_	7			
WEATHER: WIND: DIR.: NE SPEED: 0-5	кт.	72.0'_ 73.0'	7.0		GRAY (5Y/5/1) FINE GRAINED SAND	_2 6.0'	2.04 Phi 0.24 mm 5.2% Silt
_WAVES DIR.: VAR. HEIGHT 0-1			8.0		NO SAMPLE RECOVERED		
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPTEME	K	76.6'_	10.6_				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0	-	PENETRATION TO 10.6 FT. 15 MINUTES NO PENETRATION FOR LAST		
SAND	SHELL FRAG.			-	4 MINUTES		
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH		_	-			
	ROCK/RUBBLE  X X X X  X X X		16.0				
NOTE: MEANINAS O	ALCULATED USING	MOMENT	I METHOD				

		•	VIBRA	ACORE LO	)G				
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA III	CORE NO : VC96 - 16				
COORDINATES:	DATE: SEPT.	13, 1996		WATER DEPT	WATER DEPTH: 72.5 Ft. NGVD				
E = 805346	START TIME:	1654		DRILLER:	ROSSCORE (R. POLLACK)				
N = 706045	END TIME :	1652		CLIENT REP:	JLA	<del></del>			
CORE DIAMETER	R: 4.0"	ELEV. FT ( - )	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'					110.			
PENETRATION D	EPTH: 13.5'	72.5'	0.0	~ ~					
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 81 % ED: 10.9'	73.5'		7 7 7	DARK GRAY (5Y/4/1) MEDIUM GRAINED SAND W/ SHELL HASH	1.0'	1.45 Phi 0.37 mm 3.2% Silt		
SUPPORT VESS	EL: SUEBEE III			Ω ~	CORAL FRAGMENT (2.5*)		1.30 Phi		
POSITIONING: [	DIFFERENTIAL GPS	76.5'_	4.0	1 1		_2	0.41 mm 3.3% Silt		
WEATHER:  WIND:					CORAL FRAGMENT (1.5°)				
DIR.: NE SPEED: 0-5 WAVES				7 7 7					
DIR.: VAR. HEIGHT 0-1			8.0	^ ~	BORROW TUBE				
LOGGED BY: SK ANALYSIS BY: S DATE: SEPT.199	K	82.0'_	-			_3 9.5'	2.04 Phi 0.24 mm 6.6% Silt		
ANALYSIS METH VISUAL LOGG MECHANICAL	ING	83.4'_	10.9						
SAND	SHELL FRAG.	00.01		-	no sample recovered				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH	86.0'_	13.5	-	PENETRATION TO 13.5 FT.  8 MINUTES  NO PENETRATION FOR LAST  4 MINUTES				
	XXXX		16.0						

COASTAL PLANNING & ENGINEERING, INC.

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA III	CORE NO : VC96 - 48		
COORDINATES:	DATE: OCT. 10	0, 1996		WATER DEPT	H: 72.0 Ft. NGVD		
E = 805683	START TIME:	1053		DRILLER:	ROSSCORE (R. POLLACK)		
N = 706274	END TIME:	1111		CLIENT REP:	MDA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	72.0'	0.0				
PENETRATION D	EPTH: 7.0'	12.0	0.7_		OLIVE GRAY (5Y 5/2) FINE GRAINED SAND WITH SILT		1.07 Phi
LENGTH RECOVE		73.0'		- Ω	CORAL FRAGMENT (0.5°)	1 1.0'	0.48 mm 4.3% Silt
LENGTH RETAIN PERCENT RETAINE				- Ω	GRAY (5Y 5/1) MEDIUM		
SUPPORT VESS				1 1	GRAINED SAND WITH SHELL HASH		
		76.0'	4.0	Ω ~		2	1.05 Phi 0.48 mm
POSITIONING: I	GPS	16.0_	4.0	1		4.0'	4.1% Silt
WEATHER:			4.8_	$\frac{\Omega}{X X X}$	CORAL FRAGMENT (2.5")  RUBBLE LAYERS	-	
WIND:		77.8'_	5.8	<u> </u>		-	
DIR.: NOR			_		NO SAMPLE RECOVERED		
SPEED: 10 - 1	5 KI	79.0'_	7.0	-			
WAVES DIR.: NOR	TH		8.0		PENETRATION TO 7.0 FT.		
HEIGHT: 2-3	FT				18 MINUTES NO PENETRATION FOR LAST		
LOGGED BY: SK				4	5 MINUTES		
ANALYSIS BY: S DATE: OCT.1996			-				
ANALYSIS METI							
VISUAL LOGO MECHANICAL			-				
SAND	SHELL FRAG.		12.0	_			
	^ ^		-				
$\begin{array}{c c} \textbf{CORAL FRAG.} \\ \hline \Omega & \Omega & \Omega \\ \hline \Omega & \Omega \end{array}$	SHELL HASH		-				
SILT	ROCK/RUBBLE  X X X X  X X X		16.0				
	CALCULATED USIN	CMOME	T A CETTION				

		,	VIBR/	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA III	CORE NO : VC96 - 49		
COORDINATES:	DATE: OCT. 10	0, 1996		WATER DEPT	H: 70.0 Ft. NGVD		
E = 805268	START TIME:	1141		DRILLER:	ROSSCORE (R. POLLACK)		
N = 706956	END TIME :	1200		CLIENT REP:	MDA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	70.0'	0.0				
PENETRATION D	EPTH: 15.0'	70.0	0.0		-		
LENGTH RECOV				-			
LENGTH RETAIN PERCENT RETAINE		72.5'_		Ω	CORAL FRAGMENT	_1	1.62 Phi 0.33 mm
SUPPORT VESS	EL: SUEBEE III				LT. OLIVE GRAY (5Y 6/2)	2.5'	5.5% Silt
POSITIONING: [	DIFFERENTIAL		4.0		MEDIUM GRAINED SAND		
WEATHER:				-			
WIND: DIR.: NOR' SPEED: 5-10			5.8_	1 1			
WAVES DIR.: NOR HEIGHT: 2-3		77.5'_	8.0	1 1	GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH SHELL HASH	_2 7.5'	1.38 Phi 0.38 mm 3.0% Silt
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K			7 7 7			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		11.0		GREENISH GRAY (5GY 5/1) MED.		1.19 Phi
SAND	SHELL FRAG.	82.0'	12.0	Ω	SAND WITH LAYERS OF FINE GRAINED SAND CORAL FRAGMENTS (1.5°)	_3 12.0'	0.44 mm 4.1% Silt
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH	84.2'	13.4	1 .	LT. OLIVE GRAY (5Y 6/2)  SILTY SAND  NO SAMPLE RECOVERED		
SILT	ROCK/RUBBLE  XXXX  XXX  ALCULATED USING	85.0'	16.0		PENETRATION TO 15.0 FT. 19 MINUTES NO PENE. FOR LAST 5 MINUTES		

PROJECT: BROWARD COUNT	Y BORRO					į	
		W AREA	BA III	CORE NO : VC96 - 50			
COORDINATES: DATE : OCT	. 10, 1996		WATER DEPTH: 71.0 Ft. NGVD				
E = 805811 START TIME	: 1304		DRILLER:	ROSSCORE (R. POLLACK)			
N = 707426 END TIME :	1315		CLIENT REP:	MDA			
CORE DIAMETER: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 15.0'	71.0'	0.0					
PENETRATION DEPTH: 13.0'	71.0	0.0	~ ~				
LENGTH RECOVERED: 10.2' PERCENT RECOVERED: 78 % LENGTH RETAINED: 10.2'	72.0'		2 7 4	LT. OLIVE GRAY (5Y 6/2) CSR. GRAINED SAND W/ SHELL HASH AND FRAGMENTS	1 1.0'	0.47 Phi 0.72 mm 3.5% Silt	
PERCENT RETAINED: 78 % SUPPORT VESSEL: SUEBEE	111		Ω -	CORAL FRAGMENTS (2.0°)			
POSITIONING: DIFFERENTIA GPS	L 75.5'_	4.0	~ ^ Ω ~ 1	CORAL FRAGMENTS (1.5°)		1.05 Phi 0.48 mm	
WEATHER:				LT. OLIVE GRAY (5Y 6/2) MED. TO COARSE GRAINED SAND	4.5'	11.3% Silt	
<u>WIND:</u> DIR.: NORTH SPEED: 5-10 KT			Ω Ω	W/ SILT AND SHELL HASH  CORAL FRAGMENTS			
_WAVES DIR.: NORTH HEIGHT: 2-3 FT		8.0	ΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	SHELL FRAGMENT		0.67 Phi	
LOGGED BY: SK / MA ANALYSIS BY: SK DATE: OCT.1996	80.0'	10.2			9.0'	0.63 mm 7.9% Silt	
ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE		12.0		NO SAMPLE RECOVERED			
SAND SHELL FRAG.	84.0'_		-	TO STATE SEE ABOUT BRED			
CORAL FRAG. SHELL HASH $ \begin{array}{ccc} \Omega \cdot \Omega & \Omega \\ \Omega & \Omega \end{array} $			_	PENETRATION TO 13.0 FT.  11 MINUTES  NO PENETRATION FOR LAST 5 MINUTES			
SILT ROCK/RUBBLE XXXX		16.0					

		. `	VIBRA	CORE LO	G		
PROJECT: BROW	ARD COUNTY				CORE NO : VC96 - 51		
COORDINATES:	DATE: OCT. 10	0, 1996	!	WATER DEPT	H: 74.0 Ft. NGVD		
E = 805300	START TIME:	1402		DRILLER:	ROSSCORE (R. POLLACK)		
N = 707919	END TIME :	1412		CLIENT REP:	MDA	T	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	74.0'	0.0				
PENETRATION D	EPTH: 13.0'	74.0	0.3_		LT. OLIVE GRAY (5Y 6/2) FINE SAND		0.54 771
LENGTH RECOVE PERCENT RECOVER LENGTH RETAIN PERCENT RETAINER	RED: 66 % ED: 8.6'	75.0'		7 7 7	LT. GRAY (5Y 7/1) MEDIUM TO COARSE GRAINED SAND WITH SHELL HASH	1.0'	0.71 Phi 0.61 mm 2.6% Silt
SUPPORT VESSI			4.0	ຸ - ດ ດ ດ	CORAL FRAGMENTS		
WEATHER:WIND:		80.0'		ΩΩ		2	0.99 Phi 0.50 mm
DIR.: NOR SPEED: 5 - 10		00.0_			LT. GRAY (5Y 7/1) MEDIUM TO COARSE GRAINED SAND WITH SHELL HASH	6.0'	4.0% Silt
WAVES DIR.: NOR	TH		8.0	Ω	CORAL FRAGMENTS		
HEIGHT: 1-2		82.6'	8.6	XXX	RUBBLE LAYER		
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	K		-	-			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0	_	NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	87.0'_					
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-	_	PENETRATION TO 13.0 FT.  10 MINUTES  NO PENETRATION FOR LAST 5 MINUTES		
	X X X X X X X X X X X X X X		16.0				



		,	VIBR/	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	V AREA	BA IV	CORE NO : VC96 - 19		
COORDINATES:	DATE: SEPT. 2	20, 1996		WATER DEPTI	H: 50.0 Ft. NGVD		
E = 802660	START TIME :	1300		DRILLER:	ROSSCORE (R. POLLACK)		
N = 694720	END TIME :	1327		CLIENT REP:	JLA		
CORE DIAMETER		ELEV. FT (-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARF		50.0'	0.0	~ ~			
LENGTH RECOVE PERCENT RECOVEF LENGTH RETAIN! PERCENT RETAINE!	ERED: 13.2' RED: 98 % ED: 13.2'	51.5'_		7 7 7		_1 1.5'	1.82 Phi 0.28 mm 3.1% Silt
SUPPORT VESSE			4.0	2 - 2			
WEATHER:  _WIND: DIR.: NE SPEED: 0-5		56.0'_		1 1 1 1	LT. OLIVE GRAY (5Y/6/2) MEDIUM GRAINED SAND WITH SHELL HASH	_2 6.0'	1.59 Phi 0.33 mm 2.3% Silt
<u>WAVES</u> DIR.: VAR. HEIGHT 0-1			8.0				
LOGGED BY: SK ANALYSIS BY: SK DATE: SEPT.1996	<			1 1			
ANALYSIS METH VISUAL LOGGI MECHANICAL	NG	61.0'	11.8 ₋	~ ~ ~ ~ ~ ~	DARK GRAY (5Y 4/1) MEDIUM	_3 11.0'	1.60 Phi 0.33 mm 3.0% Silt
SAND	SHELL FRAG.	63.2'_ 63.5'_	12.3_ 13.2_	X X X X X X	SAND W/ SHELL HASH RUBBLE LAYERS		
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH	63.5_	13.5_		PENETRATION TO 13.5 FT.  27 MINUTES  NO PENETRATION FOR LAST 5 MINUTES		
	XXXX		16.0		5		

		,	VIBRA	ACORE LO	G			
PROJECT: BROW	ARD COUNTY	BORRO	V AREA	BA IV	CORE NO : VC96 - 52			
COORDINATES:	DATE: OCT. 10	0, 1996		WATER DEPTH: 52.0 Ft. NGVD				
E = 802674	START TIME :	1524		DRILLER:	ROSSCORE (R. POLLACK)			
N = 695492	N = 695492 END TIME :			CLIENT REP:	MDA	Т		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	52.0'	0.0					
PENETRATION D	EPTH: 8.5'	52.0	0.3_	1 1 1	LT. OL. GRAY (5Y 6/2) FINE SD W/ SILT	-		
LENGTH RECOVE PERCENT RECOVES LENGTH RETAIN PERCENT RETAINES	RED: 94 % ED: 8.0'	53.0'				1.0'	1.35 Phi 0.39 mm 2.3% Silt	
SUPPORT VESSI	EL: SUEBEE III		4.0	~ ~ ~	GRAY (5Y 6/1) MEDIUM GRAINED SAND WITH			
•	GPS			_ ~ ~	SHELL HASH			
WIND: _DIR.: NE SPEED: 5-10	) KT.	58.0'_	7.1	1 1 1		_2 6.0'	1.21 Phi 0.43 mm 2.2% Silt	
<u>WAVES</u> DIR.: NOR' HEIGHT: 1-2		60.0'	8.	Ω Ω	LT.OLIVE GRAY (5Y 6/2) MEDIUM GRAINED SAND WITH CORAL FRAG. NO SAMPLE RECOVERED			
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996  ANALYSIS METH VISUAL LOGG MECHANICAL	K H <u>OD:</u> ING			-	PENETRATION TO 8.5 FT.  16 MINUTES  NO PENETRATION FOR LAST 5 MINUTES			
SAND	SHELL FRAG.		12.0					
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $ SILT	SHELL HASH							
SILT	X X X X X X X X X X X X X X X X X X X		16.0					

			VIBRA	ACORE LO	og .		
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA IV	CORE NO : VC96 - 53		
COORDINATES:	DATE: OCT. 1	0, 1996		WATER DEPT	H: 40.0 Ft. NGVD		
E = 802311	START TIME:	1606		DRILLER:	ROSSCORE (R. POLLACK)		
N = 694187	END TIME:	1618	,	CLIENT REP:	MDA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	40.0'	0.0			110.	
PENETRATION D	EPTH: 8.8'	40.0	0.2_	1 1 1	OLIVE GR. (5Y 5/2) FINE SAND W/ SILT		
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % IED : 8.8'	41.0'		1 1 1		-1 1.0'	1.75 Phi 0.30 mm 1.7% Silt
SUPPORT VESS		44.5'_	4.0	7 7 7	DARK GRAY (5Y 4/1)	_2	1.61 Phi 0.33 mm
WEATHER:				~ ~ ~	MEDIUM GRAINED SAND WITH SHELL HASH	4.5'	2.2% Silt
<u>WIND:</u> DIR.: NE SPEED: 5 - 10	кт						
<u>WAVES</u> DIR.: NOR HEIGHT: 2-3		48.0'_	8.0			_3	1.70 Phi 0.31 mm 1.9% Silt
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K			-	PENETRATION TO 8.8 FT.  12 MINUTES		
ANALYSIS METH VISUAL LOGG MECHANICAL	iNG				NO PENETRATION FOR LAST 5 MINUTES		
SAND	SHELL FRAG.		12.0	-			
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH			_			
SILT	X X X X X X X X X X X X X X X X X X X		16.0	_			

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA IV	CORE NO : VC96 - 54		
COORDINATES:	DATE: OCT. 10	0, 1996		WATER DEPT	H: 44.0 Ft. NGVD		
E = 802596	START TIME:	1727		DRILLER:	ROSSCORE (R. POLLACK)		
N = 694104	END TIME :	1737		CLIENT REP:	MDA		
CORE DIAMETER	: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	•	0.0			,,,,,	
PENETRATION D	EPTH: 12.5'	44.0'	0.0	- Ω	DARK GRAY (5Y 4/1) COARSE GRAINED SAND WITH	1	0.87 Phi 0.55 mm
LENGTH RECOVI	•		1.0_	~ ~	SHELL HASH	0.6'	1.8% Silt
PERCENT RECOVER LENGTH RETAIN PERCENT RETAINER	ED: 10.9'	46.5'_		Ω	OLIVE GRAY (5Y 5/2) MEDIUM GRAINED SAND W/ SHELL HASH	_2 2.5'	1.92 Phi 0.26 mm 2.7% Silt
SUPPORT VESSI	EL: SUEBEE III						
POSITIONING: E	DIFFERENTIAL GPS		4.0	7 7			
WEATHER:				7 7			1.99 Phi
<u>WIND:</u> DIR.: NE SPEED: 0-5	кт	50.0'_			LIGHT GRAY (5Y 7/2) FINE TO MEDIUM GRAINED SAND	6.0'	0.25 mm 2.7% Silt
<u>WAVES</u> DIR.: SE HEIGHT: 0-1	FT		8.0	~ ~	WITH SHELL HASH		
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	<	53.0' -	-	1 1 1		4 9.0'	1.60 Phi 0.33 mm 2.9% Silt
ANALYSIS METH		54.9'	10.9			-	
MECHANICAL			12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	56.5	12.5	-			
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		_		PENETRATION TO 12.5 FT.  10 MINUTES  NO PENETRATION FOR LAST 5 MINUTES		
	X X X X X X X X X X X X X X X X X X X		16.0				
	ALCULATED USING	MOMEN	TARTUOT			1	

			VIBRA	ACORE LO	DG		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA IV	CORE NO : VC96 - 55	<del></del>	
COORDINATES:	DATE: OCT. 1	1, 1996		WATER DEPT	H: 40.0 Ft. NGVD		
E = 802247	START TIME :	1031		DRILLER:	ROSSCORE (R. POLLACK)		
N = 693193	END TIME :	1051		CLIENT REP:	NHB		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	40.0'	0.0			110.	
PENETRATION D	EPTH: 8.5'	40.0	0.2_	1 1 1	LT. OLIVE GRAY (5Y 6/2) SD W/ SILT		
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 95 % ED: 8.1'	41.0'		1 1 1	DARK GRAY MEDIUM	1 1.0°	1.93 Phi 0.26 mm 2.1% Silt
SUPPORT VESSI				7 7	GRAINED SAND WITH SHELL HASH		
POSITIONING: E WEATHER:	GPS	44.5'_	4.0	1 1		_2 4.5'	1.60 Phi 0.33 mm 2.4% Silt
	n KT		6.4_	Ω ~ ~ ~ X X X	CORAL FRAGMENT (4.0*)  RUBBLE LAYERS		
WAVES DIR.: NE	o Ki	47.5'_ 48.1'	6.9_	XXX	GRAY (5Y 6/1) MEDIUM	_3 _7.5'	1.39 Phi 0.38 mm
HEIGHT: 3-4		48.5'_			GRAINED SAND NO SAMPLE RECOVERED	1.3	3.2% Silt
LOGGED BY: SK ANALYSIS BY: SK DATE: OCT.1996  ANALYSIS METH VISUAL LOGG MECHANICAL	K I <u>OD:</u> ING				PENETRATION TO 8.5 FT.  20 MINUTES  NO PENETRATION FOR LAST  5 MINUTES		
SAND	SHELL FRAG.		12.0	-			
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH						
SILT	ROCK/RUBBLE  XXXX  XXX		16.0				



		***************************************	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA V	CORE NO : VC96 - 23		
COORDINATES:	DATE: SEPT.:	20, 1996	<b>i</b>	WATER DEPT	H: 68.0 Ft. NGVD		
E = 802618	START TIME :	1800		DRILLER:	ROSSCORE (R. POLLACK)		
N = 681915	END TIME :	1812		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	68.0'	0				
PENETRATION D	EPTH: 13.6'	68.5'_	0.0		LT. OLIVE GRAY (5Y/6/2) FINE GRAINED SAND	_1 0.5'	2.34 Phi 020 mm
LENGTH RECOVE			1.0	1 1	GRAY (5Y/5/1) MED. GRAINED SAND WITH SHELL HASH	0.3	7.5% Silt
LENGTH RETAIN			2.6	Ω	CODAL EDACMENT (LON		
PERCENT RETAINE	D. 90 76		2.6	~ ~	CORAL FRAGMENT (1.0*)  LT. OLIVE GR. (5Y/6/2) MED. GRAINED		
SUPPORT VESS	EL: SUEBEE III		3.0	~	SAND WITH SHELL HASH	-	
POSITIONING: [	DIFFERENTIAL		4.0	Ω ~	CORAL FRAGMENT (3.5°)		0.85 Phi
	GPS	72.5'_	<u> </u>	1		_2	0.55 mm
WEATHER:				- Ω		4.5'	4.2% Silt
WIND:				7	GRAY (5Y 6/1) MEDIUM TO COARSE GRAINED SAND		
DIR.: NE			-	7 ~	WITH SHELL HASH		
SPEED: 5 - 10	KT.			~ ~			
WAVES			7.7	- Ω -	CORAL FRAGMENT (1.5°)		
DIR.: SE			8.0	~			
HEIGHT 2-4	FT			1	I TO OLD THE OD AN (TIME)		4 # 6 70 1
LOGGED BY: SK	/ MA	77.0' -		_	LT. OLIVE GRAY (5Y/6/2) MEDIUM GRAINED SAND	3	1.76 Phi 0.30 mm
ANALYSIS BY: S	K			1	WITH SHELL HASH & SILT	9.0'	8.0% Silt
DATE: SEPT. 199	96		-	$\frac{\Omega}{\Omega}$	CORAL ERACICENTO		
ANALYSIS METH	HOD:			32	CORAL FRAGMENTS		
VISUAL LOGG				-  ~			
MECHANICAL	SIEVE		12.0	_ ~			
SAND	SHELL FRAG.	80.3					
	^ ^						
	^	81.6'	13.6	-	NO SAMPLE RECOVERED		
CORAL FRAG.	SHELL HASH		] -		DENIETE ATVOLUTO 10 4		
ΩΩΩ	~~				PENETRATION TO 13.6 FT. 12 MINUTES		
'			-	-	NO PENETRATION FOR LAST		
SILT	ROCK/RUBBLE  XXXX  XXX		16.0		5 MINUTES		
		1.					
210mm 2 m 427 W 4 G	CALCULATED USING	11 (0) (5)	T) (ETHOD		<u> </u>		

		,	VIBRA	ACORE LC	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA V	CORE NO : VC96 - 70		
COORDINATES:	DATE: OCT. 1	1, 1996		WATER DEPT	H: 71.5 Ft. NGVD		
E = 802864	START TIME:	1136		DRILLER:	ROSSCORE (R. POLLACK)		
N = 683352	END TIME :	1147		CLIENT REP:	NHB	l	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'		0.0				
PENETRATION D	EPTH: 10.5'	71.5'	0.0	~ ~		1	2.35 Phi 0.20 mm
LENGTH RECOVE PERCENT RECOVE LENGTH RETAINE PERCENT RETAINE	RED: 87 % IED: 9.1'	, 2		1 1 1	OLIVE GRAY (5Y 5/2) FINE GRAINED SAND WITH SHELL HASH	0.5'	6.6% Silt
SUPPORT VESS		75.0'_	4.0		CORAL FRAGMENT (2.0°)	_2 3.5'	2.40 Phi 0.19 mm 4.6% Silt
WEATHER:  _WIND:  DIR.: NE  SPEED: 15 -	20 KT	78.5' -		Ω	LT. OLIVE GRAY (5Y 6/2) MEDIUM GRAINED SAND WITH SHELL HASH & SILT	3	1.88 Phi 0.27 mm
_WAVES DIR.: NE HEIGHT: 4-6	FT		8.0	A	SHELL FRAGMENT LAYER	7.0'	9.2% Silt
LOGGED BY: SE ANALYSIS BY: S DATE: OCT.199	sк	80.6	] -		NO SAMPLE RECOVERED		·
ANALYSIS MET VISUAL LOGO MECHANICA	SING		12.0	-	PENETRATION TO 10.5 FT.  11 MINUTES  NO PENETRATION FOR LAST		
SAND	SHELL FRAG.		-		5 MINUTES		
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-				
SILT	X X X X X X X X X X X X X X X X X X X		16.0				

		,	VIBR/	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA V	CORE NO : VC96 - 71		***************************************
COORDINATES:	DATE: OCT. 2	0, 1996		WATER DEPT	H: 70.5 Ft. NGVD		
E = 802729	START TIME :	0845		DRILLER:	ROSSCORE (R. POLLACK)		
N = 683079	END TIME :	0855		CLIENT REP:	MDA		
CORE DIAMETER		ELEV. FT ( - )	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARI	REL: 15.0'	70.5'	0.0				
PENETRATION D		71.5'			GRAY (5Y 6/1) FINE GRAINED SAND WITH SHELL HASH	1	2.40 Phi 0.19 mm
PERCENT RECOVE	RED: 68 % ED: 8.8'	71.5	1.9_	~ ~	SAND WITH SHEEL HASH	1.0'	4.4% Silt
SUPPORT VESS		i		7 7	GRAY (5Y 6/1) FINE GRAINED		2.14 Phi
POSITIONING: [	DIFFERENTIAL GPS	74.0'_	4.0	1 1	SAND WITH SHELL HASH	3.5'	0.23 mm 5.4% Silt
WEATHER:			5.2_				
<u>WIND:</u> DIR.: NOR ⁻ SPEED: 5 - 10					LT. GRAY (5Y 7/1) FINE GRAINED SAND WITH SHELL HASH		
_WAVES DIR.: NOR		78.5'_	7.1 ₋ 8.0		LT. OLIVE GRAY (5Y 6/2) GRAINED FINE SAND WITH	_3	2.36 Phi 0.20 mm
HEIGHT: 1-3	FT	79.3	8.8	-	SHELL HASH AND SILT	8.0'	14.2% Silt
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K		-				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		_		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.		12.0				
CORAL FRAG.	SHELL HASH	83.5'	13.0		PENETRATION TO 13.0 FT.		
ΩΩΩ	~ ~		-		10 MINUTES NO PENETRATION FOR LAST 5 MINUTES		
SILT  I I I I  I I I I	X X X X X X X X X X X X X X X X X X X		16.0				
	CALCULATED USING	1) (O) (T)	TAGETHOD				



	, , , , , , , , , , , , , , , , , , ,		VIBR/	ACORE LO	og			
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	BA VI	CORE NO : VC96 - 24			
COORDINATES:	DATE: SEPT.:	21, 1996	3	WATER DEPTH: 37.0 Ft. NGVD				
E = 801015	START TIME:	1010		DRILLER:	ROSSCORE (R. POLLACK)			
N = 679026	END TIME :	1022		CLIENT REP:	JLA	г	r	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	37.0'	0.0			110.		
PENETRATION D	ENETRATION DEPTH: 11.0'		0.0	~ ~	GRAY( 5Y/5/1) MED. GRAINED SAND WITH SHELL HASH	_1	1.12 Phi 0.46 mm	
PERCENT RECOVE	LENGTH RECOVERED: 10.0' PERCENT RECOVERED: 91 % LENGTH RETAINED: 9.0'		1.2	~ ~		0.7'	2.0% Silt	
PERCENT RETAINE				1 1	DARK GRAY (5Y/4/1) MED.			
SUPPORT VESS				1 1	GRAINED SAND WITH SHELL HASH		1.21 Phi	
POSITIONING: I	DIFFERENTIAL GPS	41.0'_	4.0	1 1		_2 4.0'	0.43 mm 1.9% Silt	
WEATHER:								
WIND: DIR.: VAR.			6.5	1 1				
SPEED: 0-5	KI.						1.50 Phi	
DIR.: EAST HEIGHT 1 - 2		45.0'_	8.0	-	GRAY( 5Y/5/1) MED. GRAINED SAND WITH SHELL HASH	_3 8.0'	0.35 mm 1.5% Silt	
LOGGED BY: SK ANALYSIS BY: S							·	
DATE: SEPT.199		47.0'_	10.0			-		
ANALYSIS METH VISUAL LOGG	ING	48.0'_	11.0_		NO SAMPLE RECOVERED			
MECHANICAL	SIEVE		12.0		PENETRATION TO 11.0 FT.			
SAND	SHELL FRAG.			-	12 MINUTES NO PENETRATION FOR LAST 5 MINUTES			
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH							
	ROCK/RUBBLE  X X X X  X X X		16.0					
NOTE A FAMILIAS O	ALCULATED USING	MOMENT	METHOD					

PROJECT: BROV	VARD COUNTY			BA VI	ORE NO: VC96 - 59	<del>*************************************</del>	
COORDINATES: E = 800967 N = 678104	START TIME :			WATER DEPT DRILLER: CLIENT REP:	H: 39.5 Ft. NGVD ROSSCORE (R. POLLACK) MDA		
CORE DIAMETER		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR		39.5'	0.0	~ ~			
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE SUPPORT VESS POSITIONING:	ERED: 9.5' RED: 100 % IED: 8.3' D: 87 %	40.5'	4.0		GRAY (5Y 6/1) MED. GRAINED SAND WITH SHELL HASH	-1	1.31 Phi 0.40 mm 2.2% Silt
WEATHER:  WIND: DIR.: NOR SPEED: 5 - 1  WAVES DIR.: NOR HEIGHT: 1 - 2	TH FT TMA	46.5' -	8.0	* Ω ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	SHELL FRAGMENTS  CORAL FRAGMENT  DARK GRAY (5Y 4/1) MEDIUM  GRAINED SAND WITH  SHELL HASH	-2 7.0'	1.06 Phi 0.48 mm 3.9% Silt
ANALYSIS BY: S DATE: OCT.199  ANALYSIS MET VISUAL LOGG MECHANICAL  SAND  CORAL FRAG.  \[ \Omega \Ome	6 <u>HOD:</u> BING	49.0'	12.0		PENETRATION TO 9.5 FT.  14 MINUTES  NO PENETRATION FOR LAST 5 MINUTES		

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	BA VI	CORE NO : VC96 - 60		
COORDINATES:	DATE: OCT. 2	1, 1996		WATER DEPT	H: 41.5 Ft. NGVD		
E = 800845	START TIME :	0804		DRILLER:	ROSSCORE (R. POLLACK)		
N = 677504	END TIME :	0814		CLIENT REP:	MDA	<b> </b>	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	41.5'	0.0				
PENETRATION D	EPTH: 8.1'	41.5	0.0				
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE SUPPORT VESS	RED: 100 % IED: 8.1' D: 100 %	43.5'_		-	DARK GRAY (5Y 5/1) MEDIUM GRAINED SAND	_1 2.0'	1.51 Phi 0.35 mm 3.1% Silt
POSITIONING: I	DIFFERENTIAL GPS		4.0	-			
WEATHER:  _WIND: DIR.: VAR. SPEED: 5 - 10		47.5 <u>'</u>			SHELL FRAGMENT (0.5°)	_2 6.0'	1.02 Phi 0.49 mm 3.1% Silt
<u>WAVES</u> DIR.: NOR HEIGHT: 0-1		49.6'	7.5, 8.0	XXX	CORAL FRAGMENT (0.5°)  RUBBLE LAYERS		1
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996 ANALYSIS METI	K S HOD:			_	PENETRATION TO 8.1 FT.  10 MINUTES  NO PENETRATION FOR LAST  5 MINUTES		
VISUAL LOGG MECHANICAL			12.0				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH			-			
	XXXX XXX		16.0				



		,	VIBR/	ACORE LC	)G		
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	BA VII	CORE NO : VC96 - 25		
COORDINATES:	DATE: SEPT.:	21, 1996	;	WATER DEPT	H: 63.0 Ft. NGVD		
E = 802431	START TIME:	1055		DRILLER:	ROSSCORE (R. POLLACK)		
N = 677455	END TIME:	1109	· · · · · · · · · · · · · · · · · · ·	CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	63.0'	0.0				
PENETRATION D  LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	ERED: 10:5' RED: 76 % IED: 10.5'	64.0'		1 1 1	DARK GRAY (5Y/4/1)	1 1.0'	1.49 Phi 0.36 mm 2.3% Silt
SUPPORT VESS POSITIONING: [			4.0	1 1 1	MEDIUM GRAIN SAND WITH SHELL HASH		1 (2 Pk)
WEATHER:  WIND:  DIR.: EAST SPEED: 0 - 5		68.0'_	 6.5_	- α - α - α	CORAL FRAGMENT	5.0'	1.63 Phi 0.32 mm 3.1% Silt
<u>WAVES</u> DIR.: EAST HEIGHT 1-2	FT	71.5'_	8.0	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DARK GRAY FINE GRAINED SAND WITH SHELL HASH	_3 8.5'	2.12 Phi 0.23 mm 6.2% Silt
LOGGED BY: SK ANALYSIS BY: S DATE: SEPT.199	K	73.5'_	10.5	~ ~			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	76.8'	13.8				
$\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH			_	PENETRATION TO 13.8 FT. 14 MINUTES NO PENETRATION FOR LAST 5 MINUTES		
	XXXX		16.0				

		,	VIBRA	CORE LC	)G		
PROJECT: BROW	ARD COUNTY	BORRO	V AREA	BA VII	CORE NO : VC96 - 61		
COORDINATES:	DATE: OCT. 20	0, 1996		WATER DEPT	H: 58.0 Ft. NGVD		
E = 802336	START TIME :	1215		DRILLER:	ROSSCORE (R. POLLACK)		
N = 679265	END TIME:	1231		CLIENT REP:	MDA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	58.0'	0.0				
PENETRATION D	EPTH: 13.5'						0.50 Phi
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 62 % IED: 8.4'	59.0'	<u></u>	1 1 1	DARK GRAY (5Y 4/1) COARSE	1.0'	0.71 mm 2.6% Silt
SUPPORT VESS			4.0	7 7 7	GRAINED SAND WITH SHELL HASH		
1	GPS			~ ~			
WEATHER:				7 7			0.53 Phi
<u>WIND:</u> DIR.: NOR SPEED: 5 - 10		64.0'_		- Ω - Ω	CORAL FRAGMENT (1.5°)	6.0'	0.69 mm 3.5% Silt
<u>WAVES</u> DIR.: NOR HEIGHT: 1 - 2		66.4'	8.0	_ ~ ~			
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K			_			
ANALYSIS MET VISUAL LOGO MECHANICAI	SING		12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	74 5	_				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH	71.5	13.4 - 16.0		PENETRATION TO 13.5 FT.  16 MINUTES  NO PENETRATION FOR LAST  5 MINUTES		
NOTE - ME AN WAS	XXX						

VIBRACORE LOG										
PROJECT: BROWARD COUNTY BORROW AREA BA VII CORE NO : VC96 - 63										
COORDINATES:	DATE: OCT. 2	0, 1996		WATER DEPTH: 61.5 Ft. NGVD						
E = 802323	START TIME :	1354		DRILLER:	ROSSCORE (R. POLLACK)					
N = 677993	END TIME :	1415		CLIENT REP:	MDA	T				
CORE DIAMETER	CORE DIAMETER: 4.0"		DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 20.0'	FT (-)	0.0			1				
PENETRATION D	EPTH: 14.0'	61.5'	0.0	~ ~			1.15 Phi			
LENGTH RECOV	RED: 84 %	62.5'_	_	7 7	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	1.0'	0.45 mm 3.0% Silt			
LENGTH RETAIN PERCENT RETAINE					SHELL HASH LAYER					
SUPPORT VESS POSITIONING: [		66.5'_	5.0			_2 5.0'	1.34 Phi 0.40 mm 3.1% Silt			
WEATHER:			_	ΩΩ	SHELL FRAGMENT (1.5*)					
WIND: DIR.: NOR' SPEED: 5 - 10			_	 Ω	CORAL FRAGMENTS					
WAVES DIR.: NOR' HEIGHT: 1-2		72.0'_	10.0		CONALTRAGMENTS	_3	0.91 Phi 0.53 mm			
LOGGED BY: SK ANALYSIS BY: S	K	73.3'	11.8	- Ω - ~ ~ ~		10.5'	1.6% Silt			
DATE: OCT.1996			_	-	NO SAMPLE RECOVERED					
ANALYSIS METH VISUAL LOGG MECHANICAL	ING	75.5'	14.0	-		_				
SAND	SHELL FRAG.		15.0		PENETRATION TO 14.0 FT. 19 MINUTES NO PENETRATION FOR LAST					
	<b>A</b>				5 MINUTES					
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH		18.0	_						
	ROCK/RUBBLE  XXXX  XXX		20.0							
	CALCULATED USING	1) (O) (T)	TAGETION							

		,	VIBRA	ACORE LO	 DG	<del></del>				
PROJECT: BROWARD COUNTY BORROW AREA BA VII CORE NO : VC96 - 64										
COORDINATES:	DATE: OCT. 2	1, 1996		WATER DEPT	H: 61.0 Ft. NGVD					
E = 802934	START TIME :	0917		DRILLER:	ROSSCORE (R. POLLACK)					
N = 677288	END TIME :	0927		CLIENT REP:	MDA	Г				
	CORE DIAMETER: 4.0"		DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 15.0'	61.0'	0.0							
PENETRATION D	EPTH: 10.0'		0.3_	2	DARK GRAY (5Y 4/1) FINE SAND		1.02 Phi			
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 88 %	62.0'		1 1 1	DARK GRAY (5Y 4/1) MEDIUM TO COARSE GRAINED SAND WITH SHELL HASH	1 1.0'	0.49 mm 2.1% Silt			
SUPPORT VESS POSITIONING: [		65.0'_	4.0	7 A Q 7 G	SHELL FRAGMENT (1.0*) CORAL FRAGMENT (1.0*)	_2 4.0'	0.66 Phi 0.63 mm 2.1% Silt			
WEATHER:				Ω	CORAL FRAGMENT (1.0*)					
<u>WIND:</u> DIR.: NOR' SPEED: 5 - 10				~ ~ ~			0.01 PL:			
<u>WAVES</u> DIR.: NOR	тн	68.5'_	8.0			_3	0.81 Phi 0.57 mm 2.1% Silt			
HEIGHT: 0-1	FT	69.8'_	8.8_	X X X X X X	RUBBLE LAYERS					
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K	71.0'_	10.0_		NO SAMPLE RECOVERED					
ANALYSIS METH VISUAL LOGG MECHANICAL	ING				PENETRATION TO 10.0 FT.  10 MINUTES  NO PENETRATION FOR LAST					
SAND	SHELL FRAG.		12.0	_	5 MINUTES					
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-							
	X X X X X X X X X X X X X X X X X X X		16.0							

	`		VIRR	CORE LC	)G					
PROJECT: BROWARD COUNTY BORROW AREA BA VII CORE NO : VC96 - 65										
COORDINATES: DATE: OCT. 21, 1996 WATER DEPTH: 65,0 Ft, NGVD										
				DRILLER:						
	START TIME : END TIME :	1006		CLIENT REP:	(					
		1	DEPTH	LEGEND	DESCRIPTION	CAMD	DEMARKS			
CORE DIAMETER		ELEV. FT(-)	DEPIN	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 15.0'	65.0'	0.0							
PENETRATION D	EPTH: 10.0'			2 2			2 00 PM			
LENGTH RECOVI	ERED: 7.5'	66.0'		- ~	OLIVE GRAY (5Y 5/2) MEDIUM GRAINED SAND WITH	1	2.00 Phi 0.25 mm			
PERCENT RECOVER			2.0_		SHELL HASH AND SILT	1.0'	2.7% Silt			
PERCENT RETAINE			2.0_							
SUPPORT VESSI	EL: SUEBEE III	68.0'		1 1	GRAY (5Y 6/1) COARSE GRAINED SAND WITH	2	0.70 Phi 0.61 mm			
				1	SHELL HASH	3.0'	2.4% Silt			
POSITIONING: [	OIFFERENTIAL GPS		3.9	^ ~		1				
WEATHER:		70.0'		Ω	GRAY (5Y 6/1) COARSE SAND	3	0.41 Phi 0.75 mm			
WEATHER.		70.0		Ω	WITH CORAL AND SHELL	5.0'	2.0% Silt			
WIND: DIR.: NOR	ГН		-	^ Ω	FRAGMENTS					
SPEED: 5 - 10				^ ^						
_WAVES		72.5'_	7.0		RUBBLE LAYERS					
DIR.: NORTHEIGHT: 1-2	• • •		8.0							
					NO SAMPLE RECOVERED					
LOGGED BY: SK ANALYSIS BY: S			-							
DATE: OCT.1996		75.0'_	10.0	-						
ANALYSIS METH	HOD:				PENETRATION TO 10.0 FT.					
VISUAL LOGG MECHANICAL	ING			-	14 MINUTES NO PENETRATION FOR LAST					
MECHANICAL	SIEVE		12.0		5 MINUTES					
SAND	SHELL FRAG.									
	Λ		-	-						
CORAL FRAG.	SHELL HASH		_							
ΩΩΩ	~~~									
ΩΩ			-	_						
SILT	ROCK/RUBBLE		16.0							
1111	XXX									
	CALCULATED USING									

VIBRACORE LOG									
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	BA VII	CORE NO : VC96 - 66	~~			
COORDINATES:	DATE: OCT. 2	0, 1996		WATER DEPT	'H: 68.0 Ft. NGVD				
E = 802317	START TIME:	1429		DRILLER:	ROSSCORE (R. POLLACK)				
N = 676484	END TIME :	1504		CLIENT REP:	MDA				
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP	REMARKS		
LENGTH OF BAR	REL: 20.0'					NO.			
PENETRATION D	EPTH: 19.5'	68.0'	0.0			-			
LENGTH RECOV	ERED: 16.3		_	Ω	CORAL FRAGMENT (1.0*)				
PERCENT RECOVE	RED: 84 %								
LENGTH RETAIN PERCENT RETAINE		71.0'_				1	1.66 Phi 0.32 mm		
SUPPORT VESS					GRAY (5Y 5/1) MEDIUM GRAINED SAND WITH SILT	3.0'	2.7% Silt		
			_		GRAINED SAND WITH SILT				
POSITIONING: [	DIFFERENTIAL GPS		5.0	Ω	CORAL FRAGMENT (2.5°)				
M/FATUED.			_		,				
WEATHER:									
<u>WIND:</u> DIR.: NOR	гы	76.0 ¹		1		2	1.53 Phi		
SPEED: 5 - 10		70.0_	8.5_	1		8.0'	0.35 mm 10.1% Silt		
WAVES			_	7 7					
DIR.: NOR			10.0	1 ~					
HEIGHT: 1-2	F1		_	_ ~ 1	PALE YELLOW (5Y 7/3) MED.				
LOGGED BY: SK ANALYSIS BY: SI				~ ~	GRAINED SAND WITH SHELL HASH AND SILT				
DATE: OCT.1996			-	-	SHELL HASH AND SILI				
ANALYSIS METH	IOD:		_	1 7			1.68 Phi		
VISUAL LOGG	ING	82.0'_	_	1 ~		_3	0.31 mm		
MECHANICAL	SIEVE		15.0	7 1		14.0'	15.9% Silt		
SAND	SHELL FRAG.			X X X X X X					
	^	84.3'_	16.3_	7	RUBBLE LAYERS				
CORAL FRAG.	SHELL HASH		_	-					
ΩΩΩ	~ ~		_	_	NO SAMPLE RECOVERED				
ΩΩ			_	_					
SILT	XXXX	87.5'_	19.5 ₂	-	PENETRATION TO 19.5 FT.	-			
1111	XXX				33 MINUTES NO PENE.				
			_		FOR LAST 10 MINUTES				

COASTAL PLANNING & ENGINEERING, INC.

		,	VIBRA	ACORE LO	og					
PROJECT: BROWARD COUNTY BORROW AREA BA VII CORE NO : VC96 - 67										
COORDINATES:	DATE: OCT. 1	7, 1996		WATER DEPT	H: 72.0 Ft. NGVD					
E = 802338	START TIME :	1538		DRILLER:	ROSSCORE (R. POLLACK)					
N = 675806	END TIME :	1548		CLIENT REP:	MDA	Г				
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 15.0'	72.0'	0.0							
PENETRATION D	EPTH: 13.5'	72.0	0.0				2.03 Phi			
LENGTH RECOVE PERCENT RECOVER LENGTH RETAIN PERCENT RETAINE	RED: 74 % ED: 10.0'	73.0'		1 1	GRAY (5Y 6/1) MEDIUM GRAINED SAND WITH SHELL HASH	1.0'	0.25 mm 5.0% Silt			
SUPPORT VESS	EL: SUEBEE III	75.5'		Ω ~ ~	CORAL FRAGMENT (1.5°)	2	1.90 Phi 0.27 mm			
POSITIONING: [	DIFFERENTIAL GPS	10.0_	4.0	Ω ~	CORAL FRAGMENT (1.0°)	3.5'	6.6% Silt			
WEATHER:				~ ~						
<u>WIND:</u> DIR.: NORT SPEED: 5 - 10			6.7_	~ ~						
<u>WAVES</u> DIR.: NOR ⁻ HEIGHT: 1-2		80.0'_	8.0		LT. GRAY (10YR 7/1) MED. GRAINED SAND WITH SHELL HASH AND SILT	_3 8.0'	1.82 Phi 0.28 mm 11.5% Silt			
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	K	82.0'	10.0	- 1 ~						
ANALYSIS METH VISUAL LOGG MECHANICAL	ING									
SAND	SHELL FRAG.	25.5	12.0	_	NO SAMPLE RECOVERED					
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH	85.5'	13.5		PENETRATION TO 13.5 FT.  10 MINUTES  NO PENETRATION FOR LAST					
SILT	X X X X X X X X X X X X X X X X X X X		16.0		5 MINUTES					
			T METHOD							

SUB-APPENDIX B-2h OUTSIDE BORROW AREAS

VIBRACORE LOG										
PROJECT: BROWARD COUNTY BORROW AREA CORE NO : VC96 - 2										
COORDINATES:	DATE: SEPT.:	20, 1996		WATER DEPTH: 68.0 Ft. NGVD						
E = 807345	START TIME: 0754			DRILLER:	DRILLER: ROSSCORE (R. POLLACK)					
N = 722335	END TIME :	0815		CLIENT REP:	JLA					
CORE DIAMETER: 4.0"		ELEV. FT (-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 15.0'	68.0'	0.0							
PENETRATION D				1 1						
PERCENT RECOVE LENGTH RETAIN	LENGTH RECOVERED: 6.8' PERCENT RECOVERED: 91 % LENGTH RETAINED: 6.8' PERCENT RETAINED: 91 %			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GRAY (5Y 5/1) FINE GRAINED SAND WITH SHELL HASH	_1 2.0'	2.35 Phi 0.20 mm 3.3% Silt			
	SUPPORT VESSEL: SUEBEE III									
POSITIONING: [	GPS		4.0	Ω _ ~	CORAL FRAGMENT (2*)		1.76 Phi			
WEATHER:		73.0'_	5.0	1 1	GRAY (5Y 5/1) MEDIUM	5.0'	0.30 mm 2.6% Silt			
WIND: DIR.: NE SPEED: 0-5	KT.	74.8'	6.8	~ ~	GRAINED SAND WITH SHELL HASH		2.0 / 0 5110			
WAVES		75.5'	7.5		NO SAMPLE RECOVERED	1				
DIR.: SE HEIGHT: 0-1	FT	70.0_	8.0		PENETRATION TO 7.5 FT. 21 MINUTES					
LOGGED BY: SK ANALYSIS BY: S DATE: SEPT.199	K		_	_	NO PENETRATION FOR LAST 10 MINUTES					
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		SEE VC96 - 2A FOR JETTED PENETRATION					
SAND	SHELL FRAG.			_						
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-	-						
	XXXX XXXX		16.0							
L	CALCULATED USING	2.) (O) (E)	TAGETTOE							

			VIBRA	ACORE LO	)G			
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	<u>.</u>	CORE NO : VC96 - 2A			
COORDINATES:	DATE: SEPT.	19, 1996		WATER DEPTH: 68.0 Ft. NGVD				
E = 807320	START TIME :	1615		DRILLER:	ROSSCORE (R. POLLACK)			
N = 722179	END TIME :	1630		CLIENT REP:	JLA			
CORE DIAMETER		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR		68.0'	0.0					
PENETRATION D JETTED TO: LENGTH RECOV PERCENT RECOVEI LENGTH RETAIN PERCENT RETAINE	3.0' ERED: 5.3' RED: 100 % ED: 5.3'				SEE VC96 - 2/. FOR TOP 3.0 FT OF CORE  JETTED TO 3.0'			
SUPPORT VESS	EL: SUEBEE III	71.0'_	3.0	~				
POSITIONING: [	DIFFERENTIAL GPS		4.0 ~ ~					
WEATHER:					GRAY (5Y 6/1) FINE			
_WIND: DIR.: NE SPEED: 5 - 10	KT. 75.3'			7 7 1	GRAINED SAND WITH SHELL HASH	3	2.23 Phi 0.21 mm	
WAVES DIR.: SOUTHEIGHT: 0 - 1		76.3'_	8.0	~ ~	BIT SAMPLE	7.3'	3.1% Silt	
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	K				PENETRATION TO 8.0 FT. 15 MINUTES NO PENETRATION FOR LAST			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		4 MINUTES			
SAND	SHELL FRAG.			-				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-					
	ROCK/RUBBLE  X X X X  X X X		16.0					
NOTE: NEANWAS C	ALCULATED USING	MOMENT	T METHOD					

			VIBRA	ACORE LO	DG		
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	<u> </u>	CORE NO : VC96 - 4		
COORDINATES:	DATE: SEPT.	20, 1996		WATER DEPT	H: 70.0 Ft. NGVD		
E = 806727	START TIME :	0848		DRILLER:	ROSSCORE (R. POLLACK)		
N = 720861	END TIME :	0913		CLIENT REP:	JLA	,	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	70.0'	0.0				
PENETRATION D	EPTH: 13.5'			2 2			
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 78 % ED: 10.5'	71.5'_		1 1 1 1 1 1		_1 1.5'	2.07 Phi 0.24 mm 3.5% Silt
SUPPORT VESS	EL: SUEBEE III		4.0	1 1	GRAY (5Y 6/1) FINE TO MEDIUM GRAINED SAND WITH SHELL HASH		
POSITIONING: [	GPS	75.0'	4.0	1 1		2	1.71 Phi 0.30 mm
_WIND: DIR.: NE SPEED: 0-5	KT.			Ω ~ ~ ~	CORAL FRAGMENT(1.5°)	5.0'	3.6% Silt
_WAVES DIR.: SE HEIGHT: 0-1	FT		7.5 8.0	Ω ~ ~	DARK GRAY (5Y 6/1) MEDIUM GRAINED SAND WITH SHELL HASH		
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	K	79.5' <u>_</u> 80.5'	9.0	- - - Ω Ω ^	LT. OLIVE GR. (5Y 6/2) MED. GRAINED SAND WITH SHELL HASH, SHELL AND CORAL FRAGMENTS	_3 9.5'	1.45 Phi 0.37 mm 6.6% Silt
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	83.5'_			NO SAMPLE RECOVERED		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH			-	PENETRATION TO 13.5 FT. 25 MINUTES NO PENETRATION FOR LAST 15 MINUTES		
NOTE: MEAN WAS C	XXXX		16.0				

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	<del></del>	CORE NO : VC96 - 6		
COORDINATES:	DATE: SEPT.	19, 1996		WATER DEPT	H: 28.0 Ft. NGVD		
E = 804101	START TIME :	0837		DRILLER:	ROSSCORE (R. POLLACK)		
N = 718949	END TIME :	0847		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARI	REL: 15.0'	28.0'	0.0				
PENETRATION D	EPTH: 4.0'	20.0	0.0		**************************************		
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 80 % ED: 3.2'	29.5'_	 		GRAY (5Y 5/1) MEDIUM GRAINED SAND	_1 1.5'	1.67 Phi 0.32 mm 1.3% Silt
SUPPORT VESS	FL: SUEBEE III	31.2'_	3.2	Ω	SHELL HASH LAYER CORAL FRAGMENTS LAYER		
		32.0'	4.0		NO SAMPLE RECOVERED		
POSITIONING: [	GPS	J 32.0_	4.0				
WEATHER:				_	PENETRATION TO 4.0 FT.		
_WIND:			_		20 MINUTES		
DIR.: NE SPEED: 0-5	KT				NO PENETRATION FOR LAST 6 MINUTES		
WAVES DIR.: SE HEIGHT: 0-1	FT		8.0	-			
LOGGED BY: SK ANALYSIS BY: S				_			
DATE: SEPT.199			_				
ANALYSIS METH							
MECHANICAL			12.0				
SAND	SHELL FRAG.						
	^						
CORAL FRAG. $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SHELL HASH		_				
	ROCK/RUBBILE  X X X X  X X X		16.0				
NOTE: MEAN WAS	CALCULATED USING	MOMEN	T METHOD	)			

		,	VIBRA	ACORE LO	 DG		
PROJECT: BROW	ARD COUNTY				CORE NO : VC96 - 7	<del> </del>	
COORDINATES:	DATE: SEPT.:	20, 1996		WATER DEPT	H: 70.0 Ft. NGVD		
E = 807389	START TIME :	1007		DRILLER:	ROSSCORE (R. POLLACK)		
N = 717875	END TIME :	1027		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	70.0'	0.0				
PENETRATION D	ERED: 6.7'	70.0		7 1			2 27 DL:
PERCENT RECOVE  LENGTH RETAIN  PERCENT RETAINE	ED: 6.7' D: 89 %	72.0'_			LT. OLIVE GRAY (5Y 6/2) FINE GRAINED SAND WITH SHELL HASH	2.0'	2.37 Phi 0.19 mm 3.9% Silt
SUPPORT VESS POSITIONING: [			4.0	7 7 7			
WEATHER:		75.0'		~ ~ ~	LT. OLIVE GRAY (5Y 6/2) FINE GRAINED SAND WITH	2 5.0'	2.07 Phi 0.24 mm 3.9% Silt
WIND: DIR.: NE SPEED: 0-5	KT.	76.7'_	6.7_	^ ~	SHELL HASH		
WAVES DIR.: SE	FT	77.5'_	7.5_	-	NO SAMPLE RECOVERED		
HEIGHT: 0-1  LOGGED BY: SK  ANALYSIS BY: S  DATE: SEPT.199	/MA K				PENETRATION TO 7.5 FT. 20 MINUTES NO PENETRATION FOR LAST 8 MINUTES		
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0	_			
SAND	SHELL FRAG.		12.0	-			
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH			_			
	X X X X X X X X X X X X X X		16.0				
	CALCULATED USING						

			VIBR/	ACORE LO	OG		
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	<u> </u>	CORE NO : VC96 - 8	*	
COORDINATES:	DATE: SEPT.	17, 1996	3	WATER DEPT	H: 32.0 Ft. NGVD		**************************************
E = 804144	START TIME :	1118		DRILLER:	ROSSCORE (R. POLLACK)		
N = 717551	END TIME:	1138	<u> </u>	CLIENT REP:	JLA		<b></b>
CORE DIAMETER		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
PENETRATION D		32.0'	0.0	~			
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 100 % IED: 5.3'	33.0'		1 1 1	DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND	1 1.0'	1.69 Phi 0.31 mm 2.0% Silt
SUPPORT VESS				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WITH SHELL HASH		1.73 Phi
POSITIONING: [	OIFFERENTIAL GPS	36.0'_	4.0	~ ~	SHELL FRAGMENTS	4.0'	0.30 mm 2.4% Silt
WEATHER:		37.3'_	5.3	- 7	SHELL FRAUMENTS		
WIND: DIR.: NE SPEED: 0-5	кт				PENETRATION TO 5.3 FT. 8 MINUTES		
WAVES DIR.: SE HEIGHT: 0-1	FT		8.0		NO PENETRATION FOR LAST 5 MINUTES		
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	K						
ANALYSIS METH VISUAL LOGG MECHANICAL	ING			-			
SAND	SHELL FRAG.		12.0	-			
CORAL FRAG. $\begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array}$	SHELL HASH						
	ROCK/RUBBLE  X X X X  X X X		16.0	_			

		,	VIBRA	ACORE LO	)G		
PROJECT: BROV	VARD COUNTY	BORRO	W AREA	-	CORE NO : VC96 - 9		
COORDINATES:	DATE: SEPT.	17, 1996		WATER DEPT	H: 71.8 Ft. NGVD		
E = 806491	START TIME :	1030		DRILLER:	ROSSCORE (R. POLLACK)		
N = 716895	END TIME :	1045		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'					INO.	
PENETRATION D	EPTH: 13.5'	71.8'	0.0	~			
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINS	RED: 79 % IED: 10.6'	74.3'_			GRAY (5Y 6/1) MEDIUM GRAINED SAND WITH SHELL HASH	_1 2.5'	1.23 Phi 0.43 mm 2.9% Silt
SUPPORT VESS			4.0	7 7 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CORAL FRAGMENT (2.0°)		
WEATHER: WIND:	<u> </u>		-	1 1 1	COM 12 1 (2.0 )		1.26 Phi
DIR.: NE SPEED: 0-5 WAVES DIR.: SE		78.3'_	8.0	- ~ ~ Ω ~ ~	CORAL FRAGMENT (1.5°)	_2 6.5'	0.42 mm 3.4% Sile
HEIGHT: 0-1	FT		8.3_		LT. OLIVE GRAY (5Y 6/2)		1.38 Phi
LOGGED BY: SK ANALYSIS BY: S		80.8' -	9.6_		MEDIUM SAND WITH SHELL HASH	9.0'	0.38 mm 5.9% Sil
DATE: SEPT.199	96	82.4'	10.6_	Ω Λ Λ Ω	GRAY SAND W/ SHELL AND CORAL FRAGMENTS		
ANALYSIS METI VISUAL LOGG MECHANICAL	SING		12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	85.3	13.5_				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH		-	_	PENETRATION TO 13.5 FT. 15 MINUTES NO PENETRATION FOR LAST 7 MINUTES		
	XXXX		16.0				

COASTAL PLANNING & ENGINEERING, INC.

			VIBRA	ACORE LO	og				
PROJECT: BROW	ARD COUNTY				CORE NO : VC96 - 10				
COORDINATES:	DATE: SEPT.	17, 1996	3	WATER DEPT	WATER DEPTH: 69.8 Ft. NGVD				
E = 807102	START TIME :	0920		DRILLER:	ROSSCORE (R. POLLACK)				
N = 716275	END TIME :	0940		CLIENT REP:	JLA				
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	CO 01	0.0						
PENETRATION D	EPTH: 13.5'	69.8'	0.0						
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 56 % ED: 7.5'	71.3'_			GRAY (5Y 6/1) FINE GRAINED SAND	_1 1.5'	2.53 Phi 0.17 mm 2.3% Silt		
SUPPORT VESS	EL: SUEBEE III			A A A A A A A A A A A A A A A A A A A	SHELL FRAGMENTS LAYERS				
POSITIONING: [	DIFFERENTIAL GPS	74.3'_	4.0			_2	1.97 Phi 0.25 mm		
WEATHER:			5.7	Ω	CORAL FRAGMENT (2.5°)	4.5'	3.7% Silt		
WIND: DIR.: NE SPEED: 0-5	KT.		-	Ω Λ Λ Ω Ω Λ	LT. OLIVE GRAY (5Y 6/2) MEDIUM GRAINED SAND WITH SHELL AND CORAL				
WAVES		77.3'_	1	^    X	FRAGMENTS RUBBLE LAYER				
DIR.: SE HEIGHT: 0-1	FT		8.0						
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT.199	<b>&lt;</b>				NO SAMPLE RECOVERED				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		CORE PUSH THROUGH LAST 6.0 FT SAMPLE DID NOT ENTER INTO CORE BARREL				
SAND	SHELL FRAG.	83.3'							
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH			-	PENETRATION TO 13.5 FT. 20 MINUTES NO PENETRATION FOR LAST				
SILT	X X X X X X X X X X X X X X X X X X X		16.0	-	4 MINUTES				
NOTE: MEAN WAS C	ALCULATED USING	MOMEN	METHOD				1		

COASTAL PLANNING & ENGINEERING, INC.

		,	VIBRA	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 11		
COORDINATES:	DATE: SEPT.	17, 1996		WATER DEPT	H: 70.2 Ft. NGVD		
E = 806942	START TIME:	0755		DRILLER:	ROSSCORE (R. POLLACK)		
N = 714269	END TIME :	0815		CLIENT REP:	JLA		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 15.0'	70.2'	0.0				
PENETRATION D	EPTH: 12.4'	70.2	0.0	~	GRAY (5Y/6/1) FINE		2.36 Phi
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN	RED: 76 %	71.2' –	2.0	1	GRAINED SAND WITH SOME SHELL HASH	1 1.0'	0.20 mm 3.3% Silt
PERCENT RETAINE				1 1			
SUPPORT VESS POSITIONING: [		73.5'_	4.0	~ ~ ~	GRAY (5Y/6/1) MEDIUM GRAINED SAND WITH SHELL HASH	_2 3.3'	1.89 Phi 0.27 mm 3.9% Silt
WEATHER:	Gr G			~ ~ Ω ~ ~	CORAL FRAGMENT (4.0°)		
<u>WIND:</u> DIR.: NE SPEED: 0-5	кт.		6.5_	- Ω	CORAL FRAGMENT (2.5°)		
<u>WAVES</u> DIR.: VAR		78.2'	8.0	Ω	CORAL FRAGMENT (4.5°)	_3	2.10 Phi 0.23 mm
HEIGHT 0-1				_	LT. OLIVE GRAY (5Y/6/2) FINE GRAINED SAND	8.0'	4.5% Silt
ANALYSIS BY: S DATE: SEPT.199		79.6'	9.4_	-	BIT SAMPLE		
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		NO SAMPLE RECOVERED		
SAND	SHELL FRAG.	82.6		-	PENETRATION TO 12.4 FT.		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH				20 MINUTES NO PENETRATION FOR LAST 5 MINUTES		
SELT	X X X X X X X X X X X X X X X X X X X		16.0				
	CALCULATED USING	3 MOMEN	T METHOD				

		VIBR		***************************************		
PROJECT: BROWARD COUNTY				18	<del>77 </del>	
COORDINATES	00.4000					
COORDINATES: DATE: SEPT.  E = 805012 START TIME:		, ,		4010		
N = 699957 END TIME:	1130	:	CLIENT REP:	ACK) JLA		
CORE DIAMETER: 4.0"	ELEV.	DEPTH		DESCRIPTION	SAMP	DEMARKO
	FT (-)	DEF III	LLGLIND		NO.	REMARKS
LENGTH OF BARREL: 15.0'	72.0'	0.0				
PENETRATION DEPTH: 13.5'			Λ Ω	LT. GRAY (5Y 7/2)		
LENGTH RECOVERED: 10.4'			^	MEDIUM GRAINED SAND		1.17 Phi
PERCENT RECOVERED: 77 %  LENGTH RETAINED: 10.4'	73.5'_		Ω	WITH SHELL AND CORAL FRAGMENTS	_1 1.5'	0.44 mm 2.2% Silt
PERCENT RETAINED: 77 %			Ω			
SUPPORT VESSEL: SUEBEE III			- Ω			1.33 Phi
POSITIONING: DIFFERENTIAL	75.5'_	4.0	Λ Ω		_2	0.40 mm 2.5% Silt
GPS GPS		7.0	^		3.3	2.5% SIII
WEATHER:		4.3_	$\frac{1}{2}$ $\frac{x}{\alpha}$	RUBBLE LAYER	-	
		5.6_	Ω	LT. GRAY (5Y 7/2)		
<u>WIND:</u> DIR.: NE		_	- " Ω	MEDIUM GRAINED SAND WITH SHELL AND CORAL		
SPEED: 0-5 KT.			Λ Ω	FRAGMENTS		
_WAVES		7.0_	22		-	1.93 Phi
DIR.: VAR. HEIGHT 0-1 FT	80.0'_	8.0		LT. OLIVE GRAY (5Y/6/2) MEDIUM GRAINED SAND	_3 8.0'	0.26 mm 7.7% Silt
			~ 1	WITH SILT AND SHELL HASH	8.0	7.776 SHL
LOGGED BY: SK / MA ANALYSIS BY: SK		9.4_				
DATE: SEPT.1996	82.5'	_	Ω	LT. OLIVE GRAY (5Y/6/2)		
ANALYSIS METHOD:	62.5_	10.4_	-	FINE WITH SF & CF	-	
VISUAL LOGGING MECHANICAL SIEVE			-			
WEST IN WISH RESIDEN		12.0		NO SAMPLE RECOVERED		
SAND SHELL FRAG.						
Λ	05.51					
CORAL FRAG. SHELL HASH	85.5'_	13.5	-		1	
ΩΩΩ ~ ~				PENETRATION TO 13.5 FT.		
1 24 34				5 MINUTES NO PENETRATION FOR LAST		
SILT ROCK/RUBBLE XXXX		16.0		2 MINUTES		
IIII						

		,	VIBR/	ACORE LO	)G		
PROJECT: BROW	ARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 20		
COORDINATES:	DATE: SEPT.:	20, 1996		WATER DEPT	H: 72.0 Ft. NGVD		
E = 804086	START TIME :	1519		DRILLER:	ROSSCORE (R. POLLACK)		
N = 693042	END TIME :	1535		CLIENT REP:	JLA	Г	
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BAR	REL: 20.0'	72.0'	0.0				
PENETRATION D	EPTH: 18.0'		0.7		LT. OLIVE GRAY (5Y/6/2) FINE SAND		
LENGTH RECOV PERCENT RECOVEI LENGTH RETAIN PERCENT RETAINE	RED: 69 % IED: 12.4'	74.0_	3.5_	2 2 2	GRAY (5Y 5/1) MED. GRAINED SAND WITH SHELL HASH	_1 2.0'	1.22 Phi 0.43 mm 3.7% Silt
SUPPORT VESS			5.0	Ω , Ω	GRAY (5Y 5/1) MED. GRAINED SAND WITH SHELL & CORAL FRAGMENTS		
WEATHER:	GPS	78.0'_	_	1 - 1 - 1	GRAY (5Y 5/1) MED. GRAINED SAND WITH SHELL HASH AND SILT	6.0'	1.77 Phi 0.29 mm 9.5% Silt
WIND: DIR.: NE SPEED: 0-5	кт.		7.7	<u>1                                    </u>			
<u>WAVES</u> DIR.: VAR. HEIGHT 0-1		82.0'_	10.0		LT. GRAY (5Y 7/1) FINE GRAINED SAND WITH SHELL HASH AND SILT	_3 10.0'	2.24 Phi 0.21 mm 14.5% Silt
LOGGED BY: SK ANALYSIS BY: S DATE: SEPT.199	K	84.4'_	12.4_				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		- 15.0				
SAND	SHELL FRAG.		_		NO SAMPLE RECOVERED		
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH	90.0'	18.0_	-	PENETRATION TO 18.0 FT.		
SILT	X X X X X X X X X X X X X X X X X X X		20.0		.16 MINUTES NO PENETRATION FOR LAST 5 MINUTES		
	ALCULATED USING						

			VIBRA	ACORE LO	OG				
PROJECT: BROW	VARD COUNTY	BORRO	W AREA	<u> </u>	CORE NO : VC96 - 21				
COORDINATES:	DATE: SEPT.:	20, 1996	3	WATER DEPTH: 71.5 Ft. NGVD					
E = 804265	START TIME :	1544		DRILLER:	ROSSCORE (R. POLLACK)				
N = 690751	END TIME :	1606	<u> </u>	CLIENT REP:	JLA		<u> </u>		
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	71.5'	0.0						
PENETRATION D	EPTH: 8.5'	71.5	0.0						
LENGTH RECOV PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 73 % ED: 6.2'	73.2'_		^ ^	LT. GRAY (5Y/7/2) FINE TO MEDIUM GRAINED SAND SHELL FRAG, LAYER	_1 1.7'	1.98 Phi 0.25 mm 2.9% Silt		
SUPPORT VESS	EL: SUEBEE III			Ω	CORAL FRAGMENT (3.5")				
POSITIONING: [	DIFFERENTIAL		4.0	X X X	RUBBLE LAYER				
	GPS			Ω	LT. GRAY (5Y/7/2) FINE GRAINED SAND CORAL FRAGMENT				
DIR.: NE SPEED: 10 - 1	5 KT.	77.7'_	6.2_	X X X	RUBBLE LAYER				
<u>WAVES</u> DIR.: SW HEIGHT 2-4	FT	80.0'_	8.0 8.5_		NO SAMPLE RECOVERED				
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPTEME	<			-	PENETRATION TO 8.5 FT. 22 MINUTES NO PENETRATION FOR LAST				
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		5 MINUTES				
SAND	SHELL FRAG.								
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH								
	ROCK/RUBBLE  X X X X  X X X		16.0						

COASTAL PLANNING & ENGINEERING, INC.

		,	VIBRA	ACORE LO	)G			
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	•	CORE NO : VC96 - 22	<del></del>		
COORDINATES:	DATE: SEPT.	22, 1996		WATER DEPTH: 67.0 Ft. NGVD				
E = 803123	START TIME:	1700		DRILLER:	ROSSCORE (R. POLLACK)			
N = 686886	END TIME :	1715		CLIENT REP:	JLA	г		
CORE DIAMETER	₹: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARI	REL: 15.0'	67.0'	0.0					
PENETRATION D	EPTH: 13.8'			7 7			2.19 Phi	
LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE	RED: 67 % ED: 9.2'	68.0'		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	CORAL FRAGMENT (1.5°)	1.0'	0.22 mm 4.9% Silt	
SUPPORT VESS	EL: SUEBEE III			7 7				
POSITIONING: [	DIFFERENTIAL GPS		4.0		DARK GRAY (5Y/4/1) FINE TO MEDIUM GRAINED SAND			
WEATHER:				1 1	WITH SHELL HASH			
<u>WIND:</u> DIR.: NE SPEED: 5 - 10	) KT.	73.5'_		~ ~ ~		_2 6.5'	1.97 Phi 0.26 mm 6.3% Silt	
<u>WAVES</u> DIR.: SE HEIGHT 2-4	FT		7.3_ 8.0		LT. GRAY (5Y/7/2) FINE GRAINED SAND WITH			
LOGGED BY: SK ANALYSIS BY: SI DATE: SEPT. 199	K	76.2'_	9.2_	. Ω	SHELL HASH  CORAL FRAGMENT (1.5")			
ANALYSIS METH VISUAL LOGG MECHANICAL	ING		12.0		NO SAMPLE RECOVERED			
SAND	SHELL FRAG.			-				
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH	80.8'	13.8_	-	PENETRATION TO 13.8 FT. 15 MINUTES			
	ROCK/RUBBLE  XXXX  XXX		16.0		NO PENETRATION FOR LAST 5 MINUTES			
	ALCULATED USING							

COASTAL PLANNING & ENGINEERING, INC.

	ATE: OCT. 9,	1996 1302			CORE NO : VC96 - 38			
E = 804167 ST.  N = 711928 EN  CORE DIAMETER:  LENGTH OF BARREL	TART TIME:	1302						
N = 711928 EN  CORE DIAMETER:  LENGTH OF BARREL	ND TIME :			WATER DEPTH: 38.5 Ft. NGVD				
CORE DIAMETER:		1215		DRILLER: ROSSCORE (R. POLLACK)				
LENGTH OF BARREL	4.0"	END TIME: 1315		CLIENT REP:	CLIENT REP: JLA			
		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
PENETRATION DEP	L: 15.0'	38.5'	0.0					
LENGTH RECOVERS PERCENT RECOVERED LENGTH RETAINED PERCENT RETAINED:	ED: 6.0' D: 100 %	39.5'		, , ,	DARK GRAY (5Y 4/1), MEDIUM GRAINED SAND WITH SHELL HASH SHELL FRAGMENT (1.0°)	1 1.0'	1.55 Phi 0.34 mm 2.8% Silt	
SUPPORT VESSEL: POSITIONING: DIFF	FERENTIAL	42.3'_	4.0	7 7 Q	CORAL FRAGMENT (3.0°)	_2 3.8'	1.45 Phi 0.36 mm 2.5% Silt	
WEATHER:  WIND:  DIR.: NW  SPEED: 0 - 5 KT	т.	44.5_	6.0	~ ~	PENETRATION TO 6.0 FT.			
WAVES DIR.: VAR. HEIGHT 0-1 FT	Т.		8.0		13 MINUTES NO PENETRATION FOR LAST 5 MINUTES			
LOGGED BY: SK / M ANALYSIS BY: SK DATE: OCT.1996	MA		_	-				
ANALYSIS METHOD VISUAL LOGGING MECHANICAL SIE	G		12.0					
SAND SI	SHELL FRAG.		-					
CORAL FRAG. S $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH							
	X X X X X X X X X X X X X X X X X X X		16.0					

			\/IDD/	ACODE LO				
PROJECT: BROV	VARD COUNTY			ACORE LO	CORE NO : VC96 - 40			
	DATE: OCT. 9, 1996				WATER DEPTH: 36.5 Ft. NGVD			
E = 804699	START TIME :				PRILLER: ROSSCORE (R. POLLACK)			
N = 717851	END TIME :	1354		CLIENT REP:	MDA			
CORE DIAMETER		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BAR	REL: 15.0'	36.5'	0.0					
PENETRATION D	EPTH: 5.0'			7 7			1.40 Phi	
LENGTH RECOV		37.5'		^	SHELL FRAGMENT (1.0°)	1 1.0'	0.38 mm 2.3% Silt	
LENGTH RETAIN	IED: 4.1'		_		DARK GRAY (5Y 4/1), MEDIUM	1.0	2.5 70 510	
PERCENT RETAINE				7 7	GRAINED SAND WITH SHELL HASH		1.98 Phi	
SUPPORT VESS	EL: SUEBEE III	39.5'		~ <	SHELL FRAGMENT (0.5*)	2 3.0'	0.25 mm 1.8% Silt	
POSITIONING: [	DIFFERENTIAL GPS	40.6'_	4.1	-	NO SAMPLE RECOVERED			
			5.0		NO SAMPLE RECOVERED			
WEATHER:					PENETRATION TO 5.0 FT.			
<u>WIND:</u> DIR.: NE			_		9 MINUTES NO PENETRATION FOR LAST			
SPEED: 0-5	KT				4 MINUTES			
_WAVES								
DIR.: SE HEIGHT: 0-1	FT		8.0					
LOGGED BY: SK	/ MA	1						
ANALYSIS BY: S DATE: OCT.1996								
ANALYSIS METH								
VISUAL LOGG	ING			-				
MECHANICAL	SIEVE		12.0					
SAND	SHELL FRAG.							
	Λ			_				
CORAL FRAG.	SHELL HASH		-	4				
ΩΩΩ	~ ~							
	ROCK/RUBBLE		-					
	XXXX		16.0	_				
	ALCIN ATED LISTNIC							

			VIBRA	ACORE LO	OG		
PROJECT: BROV	VARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 41		
COORDINATES: E = 804671 N = 718675	START TIME :			WATER DEPTH: 34.5 Ft. NGVD DRILLER: ROSSCORE (R. POLLACK) CLIENT REP: MDA			
CORE DIAMETER LENGTH OF BAR PENETRATION D LENGTH RECOVE PERCENT RECOVE LENGTH RETAINE SUPPORT VESS POSITIONING: [1]	R: 4.0"  REL: 15.0'  EPTH: 2.8'  ERED: 1.5'  RED: 54 %  IED: 1.5'  D: 54 %  EL: SUEBEE III  DIFFERENTIAL  GPS  KT  FT  / MA  K  IOD: ING	1434 ELEV. FT (-) 34.5' 35.5' 36.0'_ 37.3'_	0.0  1.5_ 2.8_ 4.0  8.0	LEGEND	DESCRIPTION  DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH  NO SAMPLE RECOVERED  PENETRATION TO 2.8 FT. 15 MINUTES NO PENETRATION FOR LAST 5 MINUTES	SAMP NO.	1.99 Phi 0.25 mm 1.4% Silt
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH			-			
	ROCK/RUBBLE  XXXX  XXX		16.0	-			

VIBRACORE LOG									
PROJECT: BROW	ARD COUNTY	BORRO	W AREA	_	CORE NO : VC96 - 56				
COORDINATES:	DATE: OCT. 1	1, 1996		WATER DEPTH: 44.0 Ft. NGVD					
E = 802707	START TIME: 0815			DRILLER: ROSSCORE (R. POLLACK)					
N = 693118	END TIME :	0825		CLIENT REP:	NHB				
CORE DIAMETER		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BARI	REL: 15.0'	44.0'	0.0						
PENETRATION D  LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN	ERED: 3.1' RED: 57 %	45.0' 46.0'_	2.0_		GRAY (5Y 6/1) FINE GRAINED SAND WITH SHELL HASH	1 1.0'	2.13 Phi 0.23 mm 2.1% Silt		
PERCENT RETAINE SUPPORT VESS		47.1'_	3.1_	X X X X X X X X X	RUBBLE LAYERS				
POSITIONING: DIFFERENTIAL GPS			4.0		NO SAMPLE RECOVERED				
WEATHER:			5.4_						
WIND: DIR.: NOR' SPEED: 10	TH KT				PENETRATION TO 5.4 FT.  20 MINUTES  NO PENETRATION FOR LAST				
_WAVES DIR.: NE HEIGHT: 1-2	FT		8.0		5 MINUTES				
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K		_						
VISUAL LOGG	ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE			_					
SAND SHELL FRAG.			12.0	-					
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH			_					
	X X X X X X X X X X X X X X X X X X X		16.0						

VIBRACORE LOG									
PROJECT: BROW	ARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 57				
COORDINATES:				WATER DEPTH: 41.5 Ft. NGVD					
				DRILLER:	ROSSCORE (R. POLLACK)				
N = 692194	END TIME :	0942		CLIENT REP:	NHB				
CORE DIAMETER		FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	41.5'	0.0						
PENETRATION D  LENGTH RECOV  PERCENT RECOVE	ERED: 4.4'	42.5'		7 7 7	GRAY (5Y 6/1) FINE TO	-1 1.0'	2.13 Phi 0.23 mm 1.7% Silt		
LENGTH RETAIN PERCENT RETAINE	ED: 4.4'			7 7	MEDIUM GRAINED SAND WITH SHELL HASH				
SUPPORT VESS	EL: SUEBEE III	44.5'	3.6_	7 7		2 3.0'	1.69 Phi 0.31 mm 1.8% Silt		
	POSITIONING: DIFFERENTIAL GPS		4.0	X X X X X X	RUBBLE LAYERS				
WEATHER:		46.4'_	5.0_	-	NO SAMPLE RECOVERED				
<u>WIND:</u> DIR.: NOR' SPEED: 10-1!					PENETRATION TO 5.0 FT. 15 MINUTES NO PENETRATION FOR LAST				
WAVES DIR.: NE HEIGHT: 2-3	FT		8.0		5 MINUTES				
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K			_					
ANALYSIS METH VISUAL LOGG MECHANICAL	SING		-	_					
SAND	SHELL FRAG.		12.0	_					
CORAL FRAG. $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH		-						
	X X X X X X X X X X X X X X X X		16.0						
	CALCULATED USING								

	VIBRACORE LOG									
PROJECT: BROW	ARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 58	1,12				
COORDINATES: E = 801076	DATE: OCT. 2			WATER DEPT	H: 38.0 Ft. NGVD					
N = 678911				CLIENT REP:	MDA					
CORE DIAMETER	R: 4.0"	ELEV. FT (-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS			
LENGTH OF BAR	REL: 15.0'	38.0'	0.0							
PENETRATION D		38.8'_			DK. GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH	_1 0.8'	1.14 Phi 0.45 mm 1.7% Silt			
PERCENT RECOVE		40.0'_	2.0_	1	SHELL HASH					
PERCENT RETAINE	D: 44 %	40.5'_	2.5_		NO SAMPLE RECOVERED	]				
SUPPORT VESS					PENETRATION TO 2.5 FT. 11 MINUTES					
POSITIONING: [	DIFFERENTIAL GPS		4.0	_	NO PENETRATION FOR LAST 5 MINUTES					
WEATHER:	WEATHER:			+						
_WIND: DIR.: NOR' SPEED: 5 - 10			_							
WAVES DIR.: NOR' HEIGHT: 1-2			8.0	- - -						
LOGGED BY: SK ANALYSIS BY: S DATE: OCT.1996	K									
ANALYSIS METH VISUAL LOGG MECHANICAL	ING			<b>-</b>						
SAND	SHELL FRAG.		12.0	_						
CORAL FRAG. $\Omega$ $\Omega$ $\Omega$ $\Omega$	SHELL HASH			_						
	X X X X X X X X X X X X X X X X X X X		16.0							

		,	VIBRA	ACORE LO	G				
PROJECT: BROW	ARD COUNTY	BORRO\	N AREA	_	CORE NO : VC96 - 62				
COORDINATES: E = 802516 N = 678521	START TIME :			WATER DEPTI DRILLER: CLIENT REP:	( · · · · · · · · · · · · · · · · ·				
	CORE DIAMETER: 4.0"  LENGTH OF BARREL: 20.0'		DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
PENETRATION DI LENGTH RECOVE PERCENT RECOVE LENGTH RETAIN PERCENT RETAINE SUPPORT VESSI	ERED: 17.8' RED: 100 % ED: 17.8' D: 100 %	72.0'_			DARK GRAY (5Y 4/1) MEDIUM GRAINED SAND WITH SHELL HASH	_1 2.0'	1.12 Phi 0.46 mm 2.9% Silt		
POSITIONING: [		75.5'_	5.0	1 1		_2 5.5'	1.42 Phi 0.37 mm 3.6% Silt		
WEATHER:  WIND: DIR.: NOR' SPEED: 5-10  WAVES DIR.: NOR'	) KT.	78.0'_	7.1_ 8.0_ 8.4_ — 10.0	-	CORAL FRAGMENT (1.5")  DARK GRAY (5Y 4/1) MEDIUM  GRAINED SAND  GRAY (5Y 5/1) MED. SAND  OLIVE GRAY (5Y 5/2) FINE  GRAINED SAND WITH	8.0'	0.99 Phi 0.50 mm 4.4% Silt		
LOGGED BY: SK ANALYSIS BY: SI DATE: OCT.1996	HEIGHT: 1-2 FT  LOGGED BY: SK / MA  ANALYSIS BY: SK  DATE: OCT.1996  ANALYSIS METHOD:		<u>-</u>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	SHELL HASH  SHELL FRAGMENT (1.5°)	_4 11.0'	2.04 Phi 0.24 mm 7.3% Silt		
MECHANICAL SAND  CORAL FRAG. $\Omega$ $\Omega$ $\Omega$		85.5'_ 87.0'_ 87.8'_	_		OLIVE GRAY (5Y 5/2) FINE GRAINED SAND WITH SHELL HASH AND SILT	_5 _15.5' _6 _17.0'	2.13 Phi 0.23 mm 7.4% Silt 2.10 Phi 0.23 mm 7.3% Silt		
ΩΩ SILT IIII	ROCK/RUBBLE  XXXX  XXX		20.0	_	PENETRATION TO 18.0 FT. 17 MINUTES NO PENETRATION FOR LAST 5 MINUTES				

PROJECT: BROWAR		VIBRACORE LOG										
PROJECT: BROWARD COUNTY BORROW AREA CORE NO : VC96 - 68												
COORDINATES: DA	TE: OCT. 20	0, 1996		WATER DEPT	WATER DEPTH: 72.0 Ft. NGVD							
E = 802231 ST/	ART TIME :	1615		DRILLER:	DRILLER: ROSSCORE (R. POLLACK)							
N = 674763 EN	ID TIME:	1625		CLIENT REP: MDA								
CORE DIAMETER:		ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS					
LENGTH OF BARREL PENETRATION DEPT		72.0'	0.0	~ ~								
LENGTH RECOVERED PERCENT RETAINED: PERCENT RETAINED: SUPPORT VESSEL:	ED: 9.3' b: 93 % b: 9.3' 93 %	73.0'		1 1 1 1	OLIVE GRAY (5Y 5/2) FINE GRAINED SAND WITH SHELL HASH	1 1.0'	2.38 Phi 0.19 mm 9.7% Silt					
POSITIONING: DIFF GPS WEATHER:			4.0				1.81 Phi					
WIND: DIR.: NORTH SPEED: 5 - 10 KT	т.	77.5'_ 79.0'			OLIVE GRAY (5Y 5/2) MEDIUM GRAINED SAND WITH SHELL HASH	_2 5.5' 3 7.0'	0.29 mm 6.0% Silt 1.20 Phi 0.44 mm 5.2% Silt					
DIR.: NORTH HEIGHT: 1-2 FT	Т		8.0	$X \times X$	RUBBLE LAYERS							
LOGGED BY: SK / MA ANALYSIS BY: SK	IA	81.3'_	9.3_	. X X X	NO SAMPLE RECOVERED	-						
DATE: OCT.1996		82.0'_	10.0_			-						
VISUAL LOGGING	ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE		12.0		PENETRATION TO 10.0 FT.  10 MINUTES  NO PENETRATION FOR LAST 5 MINUTES							
SAND SE	HELL FRAG.											
CORAL FRAG. SI $ \begin{array}{ccc} \Omega & \Omega & \Omega \\ \Omega & \Omega & \Omega \end{array} $	SHELL HASH											
7	X X X X X X X X X X X X X X X X X		16.0									

N = 674005 END TIM	OCT. 21, 1  FIME: 112  1E: 113  1.0" EL	996 24			CORE NO : VC96 - 69		
E = 802138 START   STA	FIME: 112	24		WATER DEPT	"U. 72.0 Et. NOVD		
CORE DIAMETER:	I.O" EL	<del>~</del>		WATER DEPTH: 72.0 Ft. NGVD  DRILLER: ROSSCORE (R. POLLACK)  CLIENT REP: MDA			
LENGTH OF BARREL: 15	FT		DEPTH		DESCRIPTION	SAMP	REMARKS
		2.0'	0.0			NO.	
PENETRATION DEPTH: 9  LENGTH RECOVERED: 68  PERCENT RECOVERED: 68  LENGTH RETAINED: 68  PERCENT RETAINED: 68	5.5' 73. % .5'	.0' -		2 1 2 1	CORAL FRAGMENT (1.5°)  GRAY (5Y 5/1) MEDIUM	1 1.0'	1.97 Phi 0.25 mm 4.5% Silt
SUPPORT VESSEL: SUE POSITIONING: DIFFERE GPS			4.0	, , Q ,	GRAINED SAND WITH SHELL HASH		
WEATHER: WIND: DIR.: NORTH SPEED: 5 - 10 KT. WAVES		78.5'_	6.5_	- Λ - Ω - Ω - Λ	LT. GR. (5Y 7/I) CRSE. GRAINED SAND W/ SHELL HASH, SHELL AND CORAL FRAGMENTS	2 5.0'	0.58 Phi 0.97 mm 7.0% Silt
DIR.: NORTH HEIGHT: 1-2 FT  LOGGED BY: SK / MA ANALYSIS BY: SK		31.5'_	9.5_		NO SAMPLE RECOVERED		
DATE: OCT.1996  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE			 12.0		PENETRATION TO 9.5 FT.  10 MINUTES  NO PENETRATION FOR LAST 5 MINUTES		
SAND SHELL FR A A CORAL FRAG. SHELL HA				-			
ΩΩΩΩ ΩΩΩ ROCK/RUE	X		16.0	-			

COASTAL PLANNING & ENGINEERING, INC.

VIBRACORE LOG									
PROJECT: BROW	ARD COUNTY	BORRO	W AREA		CORE NO : VC96 - 72				
COORDINATES:	DATE: OCT. 2	0, 1996		WATER DEPT	H: 68.5 Ft. NGVD				
E = 802497	START TIME :	0919		DRILLER:	DRILLER: ROSSCORE (R. POLLACK)				
N = 681108	END TIME: 0932		0932 CLIENT RE		MDA				
CORE DIAMETER	R: 4.0"	ELEV. FT(-)	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS		
LENGTH OF BAR	REL: 15.0'	68.5'	0.0						
PENETRATION D	EPTH: 13.2'		0.0	Ω	OLIVE GRAY (5Y 5/2) COARSE		0.68 Phi		
LENGTH RECOV	ERED: 7.5'	69.2'_		Ω	GRAINED SAND WITH CORAL FRAGMENTS	0.7'	0.62 mm 3.3% Silt		
PERCENT RECOVER			1.7_	Ω		1			
PERCENT RETAINE	D: 57 %			] ^ Ω	GRAY (5Y 6/1) COARSE GRAINED SAND WITH				
SUPPORT VESS	EL: SUEBEE III			۸	CORAL AND SHELL				
POSITIONING: [	DIFFERENTIAL		4.0	_ Λ Ω	FRAGMENTS				
	GPS		4.3_	. Ω	DARK GRAY (5Y 4/1) MEDIUM		1.36 Phi 0.39 mm		
WEATHER:				- Ω	GRAINED SAND WITH CORAL AND SHELL	4.5'	7.1% Silt		
<u>WIND:</u> DIR.: NOR			6.2	Ω	FRAGMENTS				
SPEED: 5 - 10	• • •		6.7	XXX	RUBBLE LAYER	1	1.06 Phi		
WAVES		75.5' 76.0'_	7.5	- - 1	LT. BR. GRAY (2.5Y 6/1) FINE GRAINED SAND WITH SILT	3 7.0'	0.48 mm 12.8% Silt		
DIR.: NOR' HEIGHT: 1 - 3			8.0						
LOGGED BY: SK	/ M A	-							
ANALYSIS BY: S	K				NO SAMPLE RECOVERED				
DATE: OCT.1996	ì		-						
ANALYSIS METH VISUAL LOGG			_						
MECHANICAL	SIEVE		12.0						
SAND	SHELL FRAG.								
	<b>A</b>	81.7	13.2	-					
CORAL FRAG.	SHELL HASH		_	_	PENETRATION TO 13.2 FT.				
ΩΩΩ	~ ~				23 MINUTES NO PENETRATION FOR LAST				
SILT	ROCK/RUBBLE			-	5 MINUTES				
	XXXX		16.0						
	_^^^								
NOTE: MEAN WAS C	CALCULATED USING	MOMEN	T METHOD	)					

COASTAL PLANNING & ENGINEERING, INC.

## SUB-APPENDIX E-3 GRADATION ANALYSIS REPORTS



## EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-1

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00 SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	100.00	
SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 .00 .58 1.23 1.85 3.06 5.07 9.69 19.86 30.92 60.27 88.49 97.10 98.03	.00 .00 .58 1.23 1.85 3.06 5.07 9.69 19.86 30.92 60.27 88.49 97.10 98.03	100.00 100.00 99.42 98.77 98.15 96.94 94.93 90.31 80.14 69.08 39.73 11.51 2.90
200 230 PAN	3.75 4.0	.075 .063	98.09 99.02 99.95	98.09 99.02 99.95	1.91 .98 .05
	:02 ): 1.83 ): 2.88		16): .81 75): 2.26		5): 1.23 4): 2.42
SIEVE SKEWNE	LOSS(g) SS:	: .05 490		SILT/CLAY KURTOSIS	
MEAN (	C METHO PHI): 1 mm): MEAN WA	.58 .33		SORTING MEDIAN (mm) POINT METH	: .28
MEAN (	METHOD PHI): 1 mm):			SORTING	.92
א בייבת	TTE NAM	E: VC96-1 T	ΔR		

DATA FILE NAME: VC96-1.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

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SAMPLE NO.: VC96-3

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

DAMI DII	WELGITT	MI ILK WHOIL	(Gianib).	100.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	1.01	1.01	98.99
7	-1.5	2.800	1.21	1.21	98.79
10	-1.0	2.000	2.56	2.56	97.44
14	-0.5	1.400	5.67	5.67	94.33
18	0.0	1.000	8.80	8.80	91.20
25	0.5	.710	15.68	15.68	84.32
35	1.0	.500	29.21	29.21	70.79
45	1.5	.355	42.22	42.22	57.78
60	2.0	.250	67.58	67.58	32.42
80	2.5	.180	90.22	90.22	9.78
120	3.0	.125	97.48	97.48	2.52
170	3.5	.090	98.45	98.45	1.55
200	3.75		98.52	98.52	1.48
230	4.0	.063	99.24	99.24	.76
PAN			99.98	99.98	.02
PHI (50)	:61 ): 1.65	PHI (	16): .51 75): 2.16		5): .84 4): 2.36
PHI (95)	): 2.83				
SIEVE :		.02 586		SILT/CLAY	
SVEWNE				KURTOSIS	: 1.068
GRAPHI	C METHO			CODMING	
	PHI): 1		1	SORTING	
	mm):	.39 S CALCULATE		MEDIAN (mm)	
NOTE:	MEAN WA	5 CALCULATE	D OSING 5	POINT METH	OD
MOMENT	METHOD			<b> </b>	
	PHI): 1	.43		SORTING	: 1.03
•	•	.37			

DATA FILE NAME: VC96-3.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-5

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.81	.81	99.19
7	-1.5	2.800	1.23	1.23	98.77
10	-1.0	2.000	1.85	1.85	98.15
14	-0.5	1.400	2.73	2.73	97.27
18	0.0	1.000	4.07	4.07	95.93
25	0.5	.710	7.43	7.43	92.57
35	1.0	.500	19.80	19.80	80.20
45	1.5	.355	36.80	36.80	63.20
60	2.0	.250	68.59	68.59	31.41
80	2.5	.180	90.97	90.97	9.03
120	3.0	.125	97.43	97.43	2.57
170	3.5	.090	98.09	98.09	1.91
200	3.75	.075	98.15	98.15	1.85
230	4.0	.063	99.06	99.06	.94
PAN			99.97	99.97	.03
PHI(5):			16): .85	•	5): 1.15
PHI (50)		PHI(	75): 2.14	PHI (84	!): 2.34
PHI (95)	: 2.81				
SIEVE I	OSS (a)	.03		SILT/CLAY:	1.85%
SKEWNES		310		KURTOSIS	
					1.100
GRAPHIC					
	PHI): 1			SORTING:	.75
	nm) :			EDIAN (mm):	.31
NOTE: M	IEAN WAS	S CALCULATE	D USING 5	POINT METHO	D
MOMENTO	MEMUAR				
MOMENT MEAN (F		E 0		CODMING -	
•	•	.33		SORTING:	.87
mean (II		.JJ			

DATA FILE NAME: VC96-5.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

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SAMPLE NO.: VC96-42

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

	***************************************	111 1 111 111011	(0141115).	100.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .00 1.40 1.80 2.60 3.73 5.45 9.52 21.00	.00 .00 1.40 1.80 2.60 3.73 5.45 9.52 21.00	100.00 100.00 98.60 98.20 97.40 96.27 94.55 90.48 79.00
45 60 80 120 170 200 230 PAN	1.5 2.0 2.5 3.0 3.5 3.75 4.0	.355 .250 .180 .125 .090 .075 .063	35.80 63.59 87.85 97.31 98.23 98.28 99.12 99.93	35.80 63.59 87.85 97.31 98.23 98.28 99.12 99.93	64.20 36.41 12.15 2.69 1.77 1.72 .88 .07
PHI (50)	:13 ): 1.76 ): 2.88		16): .78 75): 2.24	PHI (25 PHI (84	5): 1.14
SIEVE :	LOSS(g) SS:	: .07 466		SILT/CLAY: KURTOSIS:	
MEAN (1	C METHOPHI): 1 mm): MEAN WA	.54 .34		SORTING: MEDIAN (mm): POINT METHO	.30
MEAN (	METHOD PHI): 1 mm):	.59		SORTING	.98

DATA FILE NAME: VC96-42.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

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SAMPLE NO.: VC96-43

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355	.00 .00 .30 1.04 1.99 3.57 5.85 11.43 25.54 41.45	.00 .00 .30 1.04 1.99 3.57 5.85 11.43 25.54 41.45	100.00 100.00 99.70 98.96 98.01 96.43 94.15 88.57 74.46 58.55 29.56
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075 .063	91.70 97.76 98.27 98.31 99.11 99.90	91.70 97.76	29.56 8.30 2.24 1.73 1.69 .89 .10
PHI(5): PHI(50) PHI(95)	: 1.65		(16): .66 (75): 2.11	•	): .98 ): 2.32
SIEVE I		: .10 428		SILT/CLAY: KURTOSIS:	
MEAN (m	PHI): 1 m):	.44 .37	N D USING 5	SORTING: MEDIAN (mm): POINT METHO	.32
MEAN (m	HI): 1		m.p.	SORTING:	.91

DATA FILE NAME: VC96-43.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-44

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355	.00 .00 .00 .03 .13 .38 .99 3.65 18.09 40.77	.00 .00 .03 .13 .38 .99 3.65 18.09 40.77	100.00 100.00 100.00 99.97 99.87 99.62 99.01 96.35 81.91 59.23 22.52
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075 .063	94.34 98.14 98.54 98.58 99.27 99.95	94.34 98.14 98.54 98.58 99.27	5.66 1.86 1.46 1.42 .73
PHI(5): PHI(50) PHI(95)	: 1.63		(16): .93 (75): 1.97	•	5): 1.15 4): 2.19
SIEVE L SKEWNES		: .05 093		SILT/CLAY KURTOSIS	
MEAN (m	HI): 1 m):	.58 .34	ED USING 5	SORTING MEDIAN (mm) POINT METHO	: .32
MEAN (m	HI): 1			SORTING	: .64
DATA FILE NAME: VC96-44 TAR					

DATA FILE NAME: VC96-44.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-45

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)		RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .16 .25 .55 1.14 2.16 6.04 21.81 43.12 75.90 93.49 97.82	.00 .00 .16 .25 .55 1.14 2.16 6.04 21.81 43.12 75.90 93.49 97.82	100.00 100.00 99.84 99.75 99.45 98.86 97.84 93.96 78.19 56.88 24.10 6.51 2.18
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	98.28 98.31 99.13 99.94	98.28 98.31 99.13 99.94	1.72 1.69 .87
	.37 : 1.60 : 2.67		16): .82 75): 1.99	PHI(2 PHI(8	5): 1.07 4): 2.23
SIEVE I	Loss(g)	: .06 120		SILT/CLAY KURTOSIS	
MEAN (I	METHOIPHI): 1 nm): MEAN WAS	.54	MD USING 5	SORTING EDIAN (mm) POINT METH	: .33
•	METHOD PHI): 1			SORTING	· .73

DATA FILE NAME: VC96-45.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-46

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

			SH (GRAMS)		
SIEVE SIZE		MESH SIZI (mm)	E RETAINEI (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	.710 .500 .355 .250 .180 .125 .090	0 00 0 2.14 0 3.10 0 4.40 0 6.99 0 10.14 0 39.44 0 82.00 94.50 97.60 98.00 98.00	0 .00 4 2.14 6 3.16 6 4.46 5 6.95 4 10.14 5 19.15 4 39.44 6 57.46 7 82.07 2 94.52 7 97.67 0 98.00 4 98.04 0 99.00	100.00 97.86 96.84 95.54 93.05 89.86 80.85 60.56 42.54 17.93 5.48 2.33 2.00 1.96
PHI(50		PH	I(16): .3 I(75): 1.8	3 PHI 6 PHI	(25): .64 (84): 2.08
	LOSS(g)	: .05 514		SILT/CL KURTOS	
MEAN (	C METHO PHI): 1 mm): MEAN WA	.08 .47	TED USING	SORTI MEDIAN (m 5 POINT ME	m): .41
MEAN (	METHOD PHI): 1 mm) :	.14		SORTI	NG: 1.06

DATA FILE NAME: VC96-46.TAB

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

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SAMPLE NO.: VC96-47

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .35 .82 1.66 3.24 6.03 12.97 30.46 47.87 75.16 92.54 93.92	.00 .35 .82 1.66 3.24 6.03 12.97 30.46 47.87 75.16 92.54 93.92	100.00 100.00 99.65 99.18 98.34 96.76 93.97 87.03 69.54 52.13 24.84 7.46 6.08
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	98.45 98.48 99.19 99.89	98.45 98.48 99.19 99.89	1.55 1.52 .81 .11
	18 : 1.54 : 3.12		(16): .59 (75): 2.00		5): .84
SIEVE I		: .11 086		SILT/CLAY: KURTOSIS:	
MEAN (I MEAN (I	METHOPHI): 1 nm): MEAN WA	.46 .36		SORTING: MEDIAN (mm): POINT METHO	.34
	METHOD PHI): 1 nm):			SORTING	.93
D3003 103	PT TO STREET	D. T7006 47	מאם		

DATA FILE NAME: VC96-47.TAB

## INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-1 1

SAMPLE ELEV. (FT. NGVD): -32.1

SAMPLE DEPTH (FT.): -0.4 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 70.75

SAMPLE WEIGHT AFTER WASH (GRAMS): 69.66

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .11 .55 1.38 2.95 5.52 11.05 21.32 30.99 50.38 64.95 69.07 69.59 69.62 70.17	98.36 98.40	100.00 100.00 99.84 99.22 98.05 95.83 92.20 84.38 69.87 56.20 28.79 8.20 2.37 1.64 1.60 .81
	:39 ): 1.61 ): 2.77	PHI	(16): .51 (75): 2.09	•	(5): .82 (4): 2.31
SIEVE I	LOSS(g) SS:	: .03 466		SILT/CLAY KURTOSIS	
MEAN (1		.37 .39		SORTING MEDIAN (mm) POINT METH	: .33
MEAN (	METHOD PHI): 1 mm) :			SORTING	3: .95
DATA F	ILE NAM	E: VC96-1-	1.TAB		

DATA FILE NAME: VC96-1-1.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-1 2

SAMPLE ELEV. (FT. NGVD): -33.2

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

_____

DRY SAMPLE WEIGHT (GRAMS): 66.64

SAMPLE WEIGHT AFTER WASH (GRAMS): 65.63

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .00 .62 .82 1.07 1.74 2.68 4.72 9.01	0 .0 2 .9 2 1.2 7 1.6 4 2.6 3 4.0 7.0 L 13.5	0 100.00 3 99.07 3 98.77 1 98.39 1 97.39 2 95.98 8 92.92 2 86.48
60 80 120 170 200 230 PAN	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075 .063	31.85 55.34 64.59 65.60 65.62 66.13	47.7 4 83.0 9 96.9 0 98.4 2 98.4 3 99.2	9 52.21 4 16.96 2 3.08 4 1.56 7 1.53 3 .77
	.16 ): 2.03 ): 2.93		(16): 1.16 (75): 2.39		I(25): 1.57 I(84): 2.53
SIEVE I	Loss(g) ss:	: .01 709		SILT/C KURTO	
MEAN (I	C METHO PHI): 1 mm): MEAN WA	.76	ED USING	MEDIAN (	
MEAN (1	METHOD PHI): 1 mm) :			SORT	'ING: .90
	37336	T. TTOO . 4	0 0 3 5		

DATA FILE NAME: VC96-1-2.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-1 3

SAMPLE ELEV. (FT. NGVD): -36.0 SAMPLE DEPTH (FT.): -4.3 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 70.75

SAMPLE WEIGHT AFTER WASH (GRAMS): 69.26

DAMI III	WHICHI	111 1111 1111011	(Grants).	03.20	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED I	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 .00 .32 .94 1.40 2.19 3.62 7.08 15.26 24.22 46.48 64.52 68.70 69.12	.00 .00 .45 1.33 1.98 3.10 5.12 10.01 21.57 34.23 65.70 91.19 97.10	100.00 100.00 99.55 98.67 98.02 96.90 94.88 89.99 78.43 65.77 34.30 8.81 2.90 2.30
200 230 PAN	3.75 4.0	.075 .063	69.18 69.93 70.69	97.78	2.22 1.15 .08
PHI (50)	:03 ): 1.75 ): 2.82		(16): .76 (75): 2.18		
SIEVE SKEWNES	LOSS(g) SS:	: .06 443		SILT/CLAY: KURTOSIS:	2.22%
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.53 .35		SORTING: MEDIAN (mm): POINT METHOI	.80 .30
MEAN (	METHOD PHI): 1 mm) :			SORTING:	.91

DATA FILE NAME: VC96-1-3.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-3 1

SAMPLE ELEV. (FT. NGVD): -35.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

_____

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.99
SAMPLE WEIGHT AFTER WASH (GRAMS): 58.13

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .69 .70 1.60 3.71 5.90 10.13 18.33 25.96 40.49 53.35 57.49 58.07 58.11 58.54	10.00 17.17 31.07 44.01 68.64 90.44 97.46 98.44 98.51 99.24	100.00 100.00 98.83 98.81 97.29 93.71 90.00 82.83 68.93 55.99 31.36 9.56 2.54 1.56 1.49
	:68 ): 1.62 ): 2.82		(16): .42 (75): 2.15		
SIEVE I	LOSS(g) SS:	: .00 568		SILT/CLAY KURTOSIS	
MEAN (1	mm):	.31 .40		SORTING MEDIAN (mm) POINT METH	: .32
MEAN (	METHOD PHI): 1 mm):	.39 .38		SORTING	3: 1.06
рата г	TLE NAM	E: VC96-3-	1.TAB		-

DATA FILE NAME: VC96-3-1.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-3 2

SAMPLE ELEV. (FT. NGVD): -39.5 SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.89

SAMPLE WEIGHT	AFTER WASH	(GRAMS):	75.82	
SIEVE PHI SIZE SIZE	MESH SIZE (mm)		RETAINED (%)	PASSED (%)
5/8 -4.0 5/16 -3.0 5 -2.0 7 -1.5 10 -1.0 14 -0.5 18 0.0 25 0.5 35 1.0 45 1.5 60 2.0 80 2.5 120 3.0 170 3.5 230 4.0 PAN	8.000 4.000 2.800 2.000 5.1.400 1.000 5.710 5.500 3.355 2.250 1.80 1.25 0.90 0.775	.00 .00 .40 .96 1.62 2.93 3.98 8.61 18.16 28.32 49.50 68.85 74.99 75.72 75.76 76.30 76.84		100.00 100.00 99.48 98.75 97.89 96.19 94.82 88.80 76.38 63.17 35.62 10.46 2.47 1.52 1.47 .76
PHI(5):06 PHI(50): 1.74 PHI(95): 2.84	PHI(	16): .69 75): 2.21	PHI(2 PHI(8	
SIEVE LOSS(g) SKEWNESS:	.05 413		SILT/CLAY KURTOSIS	
GRAPHIC METHOMEAN (PHI): 3 MEAN (mm): NOTE: MEAN WA	1.52 .35	M D USING 5	SORTING IEDIAN (mm) POINT METH	: .30
MOMENT METHOI MEAN (PHI): 1 MEAN (mm):	L.56		SORTING	· .94

DATA FILE NAME: VC96-3-2.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-5 1 SAMPLE ELEV. (FT. NGVD): -31.7

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 62.47

SAMPLE WEIGHT AFTER WASH (GRAMS): 61.19

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	61.19	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .06 .24 .50 1.04 2.85 9.63 19.05 39.60 55.60 60.50 61.11 61.15 61.80	.80 1.66 4.56 15.42 30.49 63.39 89.00 96.85 97.82 97.89 98.93	100.00 100.00 100.00 99.90 99.62 99.20 98.34 95.44 84.58 69.51 36.61 11.00 3.15 2.18 2.11
PHI (50	: .52 ): 1.80 ): 2.88	•	62.45  16): 1.02 75): 2.23	PHI(2	.03  5): 1.32 4): 2.40
SIEVE SKEWNE	LOSS(g)	: .02 138		SILT/CLAY KURTOSIS	
MEAN (	C METHO PHI): 1 mm): MEAN WA	.72 .30		SORTING MEDIAN (mm) POINT METH	: .29
MEAN (	METHOD PHI): 1 mm):	.73		SORTING	· .73
ד בייוברו	TTE NAM	E. VC96-5-1	ጥልዌ		

DATA FILE NAME: VC96-5-1.TAB

BROWARD COUNTY VIBRACORES BA I 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-5 2

SAMPLE ELEV. (FT. NGVD): -34.2

SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

TO BE DESCRIPTION. OR

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 60.58

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.63

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .91 1.32 1.87 2.65 3.70 5.97 14.24 25.52 44.22 56.12 59.32 59.56 59.59 60.07 60.56	.00 .00 1.50 2.18 3.09 4.37 6.11 9.85 23.51 42.13 72.99 92.64 97.92 98.32 98.37 99.17	100.00 100.00 98.50 97.82 96.91 95.63 93.89 90.15 76.49 57.87 27.01 7.36 2.08 1.68 1.63 .83
PHI(5): PHI(50) PHI(95)	: 1.63		16): .73 75): 2.05		5): 1.04
SIEVE I		.02 547		SILT/CLAY: KURTOSIS:	
	PHI): 1 m):	.41 .38	M D USING 5	SORTING: EDIAN (mm): POINT METHO	.32
MOMENT MEAN (F MEAN (m				SORTING:	.96

DATA FILE NAME: VC96-5-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-42 1

SAMPLE ELEV. (FT. NGVD): -32.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.72 SAMPLE WEIGHT AFTER WASH (GRAMS): 68.64

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	68.64	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .37 .51 .89 1.57 2.55 5.17 12.41 21.98 41.09 59.75 67.64 68.50 68.55 69.13 69.68	.00 .00 .53 .73 1.28 2.25 3.66 7.42 17.80 31.53 58.94 85.70 97.02 98.25 98.32 99.15 99.94	100.00 100.00 99.47 99.27 98.72 97.75 96.34 92.58 82.20 68.47 41.06 14.30 2.98 1.75 1.68 .85
PHI (50	: .18 ): 1.84 ): 2.91		16): .91 75): 2.30	•	5): 1.26 4): 2.47
SIEVE SKEWNE	LOSS(g) SS:	: .04 376		SILT/CLAY KURTOSIS	
MEAN (1				SORTING EDIAN (mm) POINT METH	: .28
MEAN (	METHOD PHI): 1 mm) :			SORTING	· .87

DATA FILE NAME: VC9642-1.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-42 2

SAMPLE ELEV. (FT. NGVD): -34.5

SAMPLE DEPTH (FT.): -3.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.96 SAMPLE WEIGHT AFTER WASH (GRAMS): 75.77

SAMPLE	WEIGHT	ALIEK MASH	(GRAMD).	75.77	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000	.00 .00 .00 .09 .45 1.06 2.12 4.84	.00 .00 .00 .12 .58 1.38 2.75	100.00 100.00 100.00 99.88 99.42 98.62 97.25
35 45 60 80 120 170 200 230 PAN	1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.710 .500 .355 .250 .180 .125 .090 .075 .063	12.47 21.38 40.73 63.98 74.69 75.66 75.69 76.29 76.90	6.29 16.20 27.78 52.92 83.13 97.05 98.31 98.35 99.14 99.92	93.71 83.80 72.22 47.08 16.87 2.95 1.69 1.65 .86
PHI (50)	: .32 ): 1.94 ): 2.93		16): .99 75): 2.37	•	5): 1.38 4): 2.53
SIEVE I	LOSS(g) SS:	: .06 415		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.74		SORTING MEDIAN (mm) POINT METHO	.26
MEAN ()	METHOD PHI): 1 mm) :	.80 .29		SORTING	.81

DATA FILE NAME: VC9642-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-42 3

SAMPLE ELEV. (FT. NGVD): -37.0

SAMPLE DEPTH (FT.): -5.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

_____

DRY SAMPLE WEIGHT (GRAMS): 77.94

SAMPLE WEIGHT AFTER WASH (GRAMS): 76.63

SAMPLE	WEIGHT	AFTER W	IASH	(GRAMS)	: 76	. 63	
SIEVE SIZE	PHI SIZE	MESH SI (mm)	ZE	RETAINE (GRAMS		AINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75	.5 .3 .1 .1	000 000 000 000 100 000 710 500 355 250 180 125	.0 .0 2.4 3.0 4.0 5.2 6.9 10.6 21.2 35.4 59.0 72.7 76.1 76.4	00 97 17 185 19 185 21 44 401 70 9 9 9 9 9 9	.00 .00 3.19 3.94 5.22 6.74 8.97 3.70 7.26 5.47 5.71 3.28 7.73	100.00 100.00 96.81 96.06 94.78 93.26 91.03 86.30 72.74 54.53 24.29 6.72 2.27 1.86 1.81
230 PAN	4.0		063	77.2 77.8		9.08 9.94	.92 .06
PHI (50	: -1.09 ): 1.57 ): 2.69			.6): .5 :5): 1.9			5): .92 4): 2.24
SIEVE :	LOSS(g) SS:	.05 934				T/CLAY RTOSIS	
MEAN (	C METHO PHI): 1 mm): MEAN WA	.20	LATED	USING	MEDIA	ORTING N (mm) T METHO	.34
MEAN (	METHOD PHI): 1 mm) :	.32			S	ORTING	: 1.11

DATA FILE NAME: VC9642-3.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-43 1

SAMPLE ELEV. (FT. NGVD): -34.7

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 66.13

SAMPLE WEIGHT AFTER WASH (GRAMS): 65.07

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED :	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .26 1.01 2.00 3.40 5.47 10.11 20.16 30.65 48.74 61.29 64.68 64.97 64.99 65.53 66.07	.00 .39 1.53 3.02 5.14 8.27 15.29 30.49 46.35 73.70 92.68 97.81 98.25 98.28 99.09 99.91	100.00 100.00 99.61 98.47 96.98 94.86 91.73 84.71 69.51 53.65 26.30 7.32 2.19 1.75 1.72
PHI(5): PHI(50) PHI(95)	: 1.57		(16): .52 (75): 2.03	PHI (25	
SIEVE I		: .06 538		SILT/CLAY: KURTOSIS:	1.72% 1.100
	PHI): 1 nm) :	.31		SORTING: MEDIAN (mm): POINT METHO	.34
MOMENT MEAN (I	PHI): 1			sorting:	.98

DATA FILE NAME: VC9643-1.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-43 2

SAMPLE ELEV. (FT. NGVD): -38.7

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

______

DRY SAMPLE WEIGHT (GRAMS): 66.14
SAMPLE WEIGHT AFTER WASH (GRAMS).

SAMPLE	WEIGHT	AFTER WAS	H (GRAMS):	65.13	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .16 .44 .81 1.59 2.67 5.64 14.43 24.99 44.97 60.17 64.64 65.01 65.04	.24 .67 1.22 2.40 4.04 8.53 21.82 37.78 67.99 90.97 97.73 98.29 98.34 99.12	100.00 100.00 99.76 99.33 98.78 97.60 95.96 91.47 78.18 62.22 32.01 9.03 2.27 1.71 1.66 .88
PHI (50	: .11 ): 1.70 ): 2.80		(16): .78 (75): 2.15	•	5): 1.10 4): 2.35
SIEVE SKEWNE	LOSS(g) SS:	.07 319		SILT/CLAY KURTOSIS	
MEAN (: MEAN (:	C METHOPHI): 1 mm): MEAN WA:	.55 .34	ED USING 5	SORTING MEDIAN (mm) POINT METH	: .31
MEAN (	METHOD PHI): 1 mm) :			SORTING	: .84
בי מודיא בי	יאר אדות ידודי	F. 1700642	2 (11) 2		

DATA FILE NAME: VC9643-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-43 3

SAMPLE ELEV. (FT. NGVD): -43.2

SAMPLE DEPTH (FT.): -9.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 57.38

SAMPLE WEIGHT AFTER WASH (GRAMS): 56.41

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 1.21 1.65 2.32 3.45 5.20 9.25 18.26 27.61 43.81 53.67 56.30 56.34 56.83	.00 .00 2.11 2.88 4.04 6.01 9.06 16.12 31.82 48.12 76.35 93.53 97.72 98.12 98.19 99.03 99.90	100.00 100.00 97.89 97.12 95.96 93.99 90.94 83.88 68.18 51.88 23.65 6.47 2.28 1.88 1.81
PHI(5): PHI(50) PHI(95)	: 1.53		(16): .49 (75): 1.98		5): .78
SIEVE L		: .06 663		SILT/CLAY: KURTOSIS:	
	HI): 1 m):	.23 .43		SORTING: MEDIAN (mm): POINT METHO	.35
	METHOD HI): 1 m):			SORTING:	1.06

DATA FILE NAME: VC9643-3.TAB

GRADATION ANALYSIS REPORT BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-44 1

SAMPLE ELEV. (FT. NGVD): -29.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.89

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.90

DIMIL DI					
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.05	.08	99.92
10	-1.0	2.000	.20	.31	99.69
14	-0.5	1.400	.51	.80	99.20
18	0.0	1.000	1.16	1.82	98.18
25	0.5	.710	2.88	4.51	95.49
35	1.0	.500	8.91	13.95	86.05
45	1.5	.355	18.06	28.27	71.73
60	2.0	.250	42.04	65.80	34.20
. 80	2.5	.180	58.30	91.25	8.75
120	3.0	.125	62.38	97.64	2.36
170	3.5	.090	62.83		1.66
200	3.75	.075	62.84		1.64
230	4.0	.063	63.34		.85
PAN			63.85	99.94	.06
DHT (5)	. 53	PHT (	(16): 1.07	PHT (2	5): 1.39
	): 1.79		(75): 2.18		4): 2.36
PHI (95			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1111(0	.,. 2.50
STEVE	LOSS(g)	: .04		SILT/CLAY	1.64%
SKEWNE		202		KURTOSIS	
	C METHO				
	PHI): 1			SORTING	
	mm) :			MEDIAN (mm)	
NOTE:	MEAN WA	S CALCULATI	ED USING 5	POINT METH	OD
MOMENTO	METHOD				
	PHI): 1			SORTING	: .69
	mm) :			501(111)	09
D 2 CD 2 TO	TTT: NTN N/	E. TOO 644-1	כו גוח ו		

DATA FILE NAME: VC9644-1.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-44 2 SAMPLE ELEV. (FT. NGVD): -31.5

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.55

SAMPLE WEIGHT AFTER WASH (GRAMS): 64.71

CT 177777	DIIT	•			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .01 .08 .25 .55 1.78 8.41 21.41 47.09 61.20 64.43 64.63 64.65 65.09 65.52	.00 .00 .02 .12 .38 .84 2.72 12.83 32.66 71.84 93.36 98.29 98.60 98.63 99.30 99.95	100.00 100.00 100.00 99.98 99.88 99.62 99.16 97.28 87.17 67.34 28.16 6.64 1.71 1.40 1.37 .70
PHI(5): PHI(50): PHI(95):	1.72		(16): 1.08 (75): 2.07		i): 1.31 :): 2.28
SIEVE LO		.03 136		SILT/CLAY: KURTOSIS:	
	HI): 1	.67 .31		SORTING: MEDIAN (mm): POINT METHO	.30
•	METHOD HI): 1 n):			SORTING:	.61

DATA FILE NAME: VC9644-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-44 3

SAMPLE ELEV. (FT. NGVD): -35.0 SAMPLE DEPTH (FT.): -7.0

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

_____

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 79.25

SAMPLE WEIGHT AFTER WASH (GRAMS): 78.25

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .01 .02 .10 .45 2.87 18.41 41.48 69.17 76.61 77.95	.00 .00 .00 .01 .03 .13 .57 3.62 23.23 52.34 87.28 96.67 98.36	100.00 100.00 100.00 99.99 99.97 99.87 99.43 96.38 76.77 47.66 12.72 3.33 1.64
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	78.16 78.20 78.71 79.22	98.62 98.68 99.32 99.96	1.38 1.32 .68
PHI(5): PHI(50) PHI(95)	: 1.46		(16): .82 (75): 1.82	PHI(2 PHI(8	5): 1.03 4): 1.95
SIEVE I	COSS(g)	.03 .023		SILT/CLAY KURTOSIS	
MEAN (I	C METHOPHI): 1 nm): MEAN WA	.43 .37		SORTING MEDIAN (mm) POINT METH	: .36
MEAN (I	METHOD PHI): 1 nm) :	.43		SORTING	;: .59

DATA FILE NAME: VC9644-3.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-45 1

SAMPLE ELEV. (FT. NGVD): -30.0

SAMPLE DEPTH (FT.): -0.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 76.90

SAMPLE WEIGHT AFTER WASH (GRAMS): 75.96

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .07 .36 1.23 2.66 6.92 18.59 31.39 53.35 69.34 75.18 75.86 75.88 76.84	.00 .00 .00 .09 .47 1.60 3.46 9.00 24.17 40.82 69.38 90.17 97.76 98.65 98.67 99.30 99.92	100.00 100.00 100.00 99.91 99.53 98.40 96.54 91.00 75.83 59.18 30.62 9.83 2.24 1.35 1.33
PAN PHI(5): PHI(50) PHI(95)	: 1.66		(16): .73 (75): 2.14	PHI(25	5): 1.02
SIEVE I		: .06 225		SILT/CLAY: KURTOSIS:	
	PHI): 1	.54 .34		SORTING: MEDIAN (mm): POINT METHO	.32
•	PHI): 1			SORTING	.81

DATA FILE NAME: VC9645-1.TAB

GRADATION ANALYSIS REPORT BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-45 2

SAMPLE ELEV. (FT. NGVD): -31.7 SAMPLE DEPTH (FT.): -2.2

SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 79.16

SAMPLE WEIGHT AFTER WASH (GRAMS): 78.00

DAMI LL	MELGIII	711 1111 (111011	(CIUIID).	, 0.00	. •
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	.180 .125 .090 .075	.00 .00 .37 .51 .93 1.66 2.92 7.46 22.39 38.34 61.85 75.14 77.69 77.92	.00 .47 .64 1.17 2.10 3.69 9.42 28.28 48.43 78.13 94.92 98.14 98.43 98.45	100.00 99.53 99.36 98.83 97.90 96.31 90.58 71.72 51.57 21.87 5.08 1.86 1.57
230 PAN	4.0	.063	78.53 79.12		.80 .05
PHI (50	: .11 ): 1.53 ): 2.51	PHI (	16): .67 75): 1.95		25): .91 84): 2.17
SIEVE :	LOSS(g) SS:	: .04 284		SILT/CLA KURTOSI	
MEAN (	C METHO PHI): 1 mm) : MEAN WA	.40		SORTING MEDIAN (mm POINT MET	): .35
MEAN (	METHOD PHI): 1 mm):	.41		SORTIN	G: .81
	TT TO 37336	T. TTOOCAE 0	m a ro		

DATA FILE NAME: VC9645-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-45 3

SAMPLE ELEV. (FT. NGVD): -34.5

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

_____

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 79.87

SAMPLE WEIGHT AFTER WASH (GRAMS): 78.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .00 .03 .12 .26 .53 2.15 13.23 32.15 61.18 74.79 77.97	.00 .04 .15 .33 .66 2.69 16.56 40.25 76.60 93.64 97.62	100.00 100.00 100.00 99.96 99.85 99.67 99.34 97.31 83.44 59.75 23.40 6.36 2.38
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	78.31 78.35 79.10 79.83	98.10 99.03	1.95 1.90 .97 .05
PHI(5): PHI(50) PHI(95)	: 1.63		(16): .98 (75): 1.98		25): 1.18 84): 2.22
SIEVE I		: .04 011		SILT/CLA KURTOSI	
	PHI): 1 mm) :	.62 .33	ED USING 5	SORTIN MEDIAN (mm 5 POINT MET	.32
MOMENT MEAN (I	PHI): 1			SORTIN	G: .63

DATA FILE NAME: VC9645-3.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-46 1

SAMPLE ELEV. (FT. NGVD): -26.8

SAMPLE DEPTH (FT.): -1.3 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 55.26

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.16

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	54.16	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .24 .41 .79 1.66 3.27 7.47 17.86 27.23 41.94 51.24 53.83 54.08 54.10 54.66 55.22	.00 .00 .43 .74 1.43 3.00 5.92 13.52 32.32 49.28 75.90 92.73 97.41 97.86 97.90 98.91 99.93	100.00 100.00 99.57 99.26 98.57 97.00 94.08 86.48 67.68 50.72 24.10 7.27 2.59 2.14 2.10 1.09
	:16 ): 1.51 ): 2.74		16): .57 75): 1.98		5): .81 4): 2.24
SIEVE SKEWNE	LOSS(g) SS:	: .04 264		SILT/CLAY KURTOSIS	
MEAN (	C METHO PHI): 1 mm): MEAN WA	.38		SORTING MEDIAN (mm) POINT METH	: .35
MEAN (	METHOD PHI): 1 mm):			SORTING	.90

DATA FILE NAME: VC9646-1.TAB

GRADATION ANALYSIS REPORT BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-46 2

SAMPLE ELEV. (FT. NGVD): -30.0

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 60.92

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.89

SWILTE	WEIGHT	AFIER WADI	· (Clumb).	37.03	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000	.00 .00 2.74 3.96 5.27 6.11 9.76	.00 4.50 6.50 8.65 10.03 16.02 26.92	100.00 100.00 95.50 93.50 91.35 89.97 83.98 73.08
35 45 60 80 120 170 200 230 PAN	1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.500 .355 .250 .180 .125 .090 .075 .063	30.02 41.88 55.19 59.08 59.72 59.82 59.84 60.38 60.91	68.75 90.59 96.98 98.03 98.19 98.23 99.12	50.72 31.25 9.41 3.02 1.97 1.81 1.77 .88
PHI (50)	: -1.87 ): 1.02 ): 2.34	PHI PHI	(16): .00 (75): 1.64	PHI(	25): .41 84): 1.85
SIEVE I		: .01 846		SILT/CLA KURTOSI	
MEAN (1	mm) :	.67 .63		SORTIN MEDIAN (mm POINT MET	): .49
MEAN (	METHOD PHI): mm):	.84 .56		SORTIN	G: 1.17

DATA FILE NAME: VC9646-2.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-47 1

SAMPLE ELEV. (FT. NGVD): -29.0

SAMPLE DEPTH (FT.): -0.5 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.36

SAMPLE WEIGHT AFTER WASH (GRAMS): 68.68

SIEVE SIZE         PHI SIZE (mm)         RETAINED (GRAMS)         RETAINED (%)         PASSED (%)           5/8         -4.0         16.000         .00         .00         100.00           5/16         -3.0         8.000         .00         .00         100.00           5         -2.0         4.000         .35         .50         99.50           7         -1.5         2.800         .80         1.15         98.85           10         -1.0         2.000         1.58         2.28         97.72           14         -0.5         1.400         3.17         4.57         95.43           18         0.0         1.000         5.88         8.48         91.52           25         0.5         .710         12.32         17.76         82.24           35         1.0         .500         25.36         36.56         63.44           45         1.5         .355         36.97         53.30         46.70           60         2.0         .250         54.91         79.17         20.83           80         2.5         .180         65.60         94.58         5.42           120         3.0         .125	SAMPLIE	WEIGHT	AFIER WADII	(GIAMIS).	00.00	
5/16						
230 4.0 .063 68.93 99.38 .62 PAN 69.27 99.87 .13  PHI(5):45 PHI(16): .41 PHI(25): .69 PHI(50): 1.40 PHI(75): 1.92 PHI(84): 2.16 PHI(95): 2.55  SIEVE LOSS(g): .09 SILT/CLAY: 1.12% SKEWNESS:396 KURTOSIS: 1.002  GRAPHIC METHOD MEAN (PHI): 1.21 SORTING: .88 MEAN (mm): .43 MEDIAN (mm): .38 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.26 SORTING: .94	5/16 5 7 10 14 18 25 35 45 60 80 120 170	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 .35 .80 1.58 3.17 5.88 12.32 25.36 36.97 54.91 65.60 68.26 68.56	.00 .50 1.15 2.28 4.57 8.48 17.76 36.56 53.30 79.17 94.58 98.41 98.85	100.00 99.50 98.85 97.72 95.43 91.52 82.24 63.44 46.70 20.83 5.42 1.59 1.15
PHI(50): 1.40 PHI(75): 1.92 PHI(84): 2.16 PHI(95): 2.55  SIEVE LOSS(g): .09 SILT/CLAY: 1.12% SKEWNESS:396 KURTOSIS: 1.002  GRAPHIC METHOD MEAN (PHI): 1.21 SORTING: .88 MEAN (mm): .43 MEDIAN (mm): .38 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.26 SORTING: .94	230			68.93	99.38	.62
GRAPHIC METHOD  MEAN (PHI): 1.21  MEAN (mm): .43  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.26  SORTING: .94	PHI (50)	): 1.40				
MEAN (PHI): 1.21 SORTING: .88 MEAN (mm): .43 MEDIAN (mm): .38 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.26 SORTING: .94						
MEAN (PHI): 1.26 SORTING: .94	MEAN (1	PHI): 1 mm):	.21 .43		MEDIAN (mm)	: .38
	MEAN (	PHI): 1			SORTING	.94

DATA FILE NAME: VC9647-1.TAB

BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-47 2

SAMPLE ELEV. (FT. NGVD): -32.0

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 59.60

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.72

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED P (%)	ASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .18 .43 .88 1.70 3.17 6.90 17.10 27.59 44.10 54.80 55.20 58.61 58.63 59.09 59.54	.00 .30 .72 1.48 2.85 5.32 11.58 28.69 46.29 73.99 91.95 92.62 98.34 98.37 99.14	100.00 100.00 99.70 99.28 98.52 97.15 94.68 88.42 71.31 53.71 26.01 8.05 7.38 1.66 1.63 .86
PHI(5): PHI(50) PHI(95)	: 1.57		(16): .63 (75): 2.03	PHI(25) PHI(84)	: .89
SIEVE L		.06 .006		SILT/CLAY: KURTOSIS:	1.63% 1.181
MEAN (m	HI): 1 m) :	.52 .35		SORTING: MEDIAN (mm): POINT METHOD	.82
•	METHOD HI): 1 m):			SORTING:	.92

DATA FILE NAME: VC9647-2.TAB

GRADATION ANALYSIS REPORT BROWARD COUNTY VIBRACORES BA I 10/96

TESTED BY: SK ON: 10/96

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SAMPLE NO.: VC96-47 3

SAMPLE ELEV. (FT. NGVD): -35.5

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.65

SAMPLE WEIGHT AFTER WASH (GRAMS): 79.44

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.5 1.5 2.0 2.5 3.5 3.75	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .60 1.41 2.58 3.81 5.91 12.26 30.83 49.38 70.66 77.98 79.23 79.34	.00 .74 1.75 3.20 4.72 7.33 15.20 38.23 61.23 87.61 96.69 98.24 98.38	100.00 100.00 99.26 98.25 96.80 95.28 92.67 84.80 61.77 38.77 12.39 3.31 1.76 1.62 1.59
230 PAN	4.0	.063	79.99 80.60	99.18	.82
PHI(5): PHI(50) PHI(95)	: 1.26		(16): .52 (75): 1.76	•	25): .71 84): 1.93
SIEVE I	LOSS(g)	: .05 390		SILT/CLA KURTOSI	
MEAN (I	C METHO PHI): 1 nm): MEAN WA	.13 .46	ED USING 5	SORTING MEDIAN (mm 5 POINT MET	): .42
MEAN (I	METHOD PHI): 1 nm) :			SORTIN	G: .89

DATA FILE NAME: VC9647-3.TAB



## EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA II 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-12

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .52 .78 1.36 2.38 4.00 8.76 20.36 34.01 66.36 91.37 97.71	.00 .00 .52 .78 1.36 2.38 4.00 8.76 20.36 34.01 66.36 91.37 97.71	100.00 100.00 99.48 99.22 98.64 97.62 96.00 91.24 79.64 65.99 33.64 8.63 2.29
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	98.26 98.31 99.14 99.97	98.31	1.74 1.69 .86
PHI (50)	: .11 ): 1.75 ): 2.79		16): .81 75): 2.17	•	5): 1.17 4): 2.35
SIEVE I	Loss(g)	: .03 391		SILT/CLAY KURTOSIS	
MEAN (I	C METHOPHI): 1 nm): MEAN WA	.56 .34		SORTING IEDIAN (mm) POINT METHO	: .30
MEAN (I	METHOD PHI): 1 nm) :			SORTING	.85

DATA FILE NAME: VC96-12.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-14

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE         PHI SIZE         MESH SIZE (mm)         RETAINED (GRAMS)         RETAINED (%)         PASSED (%)           5/8         -4.0         16.000         .00         .00         100.00           5/16         -3.0         8.000         .00         .00         100.00           5         -2.0         4.000         .18         .18         99.82           7         -1.5         2.800         .32         .32         99.68           10         -1.0         2.000         .53         .53         99.47           14         -0.5         1.400         .96         .96         .99.04           18         0.0         1.000         1.84         1.84         .98.16           25         0.5         .710         4.20         4.20         .95.80           35         1.0         .500         10.27         10.27         89.73           45         1.5         .355         19.25         19.25         80.75           60         2.0         .250         50.07         50.07         49.93           80         2.5         .180         87.38         87.38         12.62           120         3.0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
5/16						
80 2.5 .180 87.38 87.38 12.62 120 3.0 .125 97.22 97.22 2.78 170 3.5 .090 98.11 98.11 1.89 200 3.75 .075 98.13 98.13 1.87 230 4.0 .063 99.09 99.09 .91 PAN 100.00 100.00 .00  PHI(5): .57 PHI(16): 1.32 PHI(25): 1.59 PHI(50): 2.00 PHI(75): 2.33 PHI(84): 2.45 PHI(95): 2.89  SIEVE LOSS(g): .00 SILT/CLAY: 1.87% SKEWNESS:480 KURTOSIS: 1.284  GRAPHIC METHOD MEAN (PHI): 1.85 SORTING: .57 MEAN (mm): .28 MEDIAN (mm): .25 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.88 SORTING: .71	5/16 5 7 10 14 18 25 35 45	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .18 .32 .53 .96 1.84 4.20 10.27 19.25	.00 .18 .32 .53 .96 1.84 4.20 10.27 19.25	100.00 99.82 99.68 99.47 99.04 98.16 95.80 89.73 80.75
PHI(50): 2.00 PHI(75): 2.33 PHI(84): 2.45 PHI(95): 2.89  SIEVE LOSS(g): .00 SILT/CLAY: 1.87% SKEWNESS:480 KURTOSIS: 1.284  GRAPHIC METHOD MEAN (PHI): 1.85 SORTING: .57 MEAN (mm): .28 MEDIAN (mm): .25 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.88 SORTING: .71	80 120 170 200 230	2.5 3.0 3.5 3.75	.180 .125 .090 .075	87.38 97.22 98.11 98.13 99.09	87.38 97.22 98.11 98.13 99.09	12.62 2.78 1.89 1.87
GRAPHIC METHOD  MEAN (PHI): 1.85  MEAN (mm): .28  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.88  SORTING: .71	PHI (50)	: 2.00			•	
MEAN (PHI): 1.85 SORTING: .57 MEAN (mm): .28 MEDIAN (mm): .25 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.88 SORTING: .71						
MEAN (PHI): 1.88 SORTING: .71	MEAN (I	PHI): 1 mm) :	.85 .28		MEDIAN (mm)	: .25
	MEAN ()	PHI): 1			SORTING	: .71

DATA FILE NAME: VC96-14.TAB

BROWARD CO. VIBRACORES BA II 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-17

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

					•
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED I	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.14	.14	99.86
7	-1.5	2.800	.31	.31	99.69
10	-1.0	2.000	.64	.64	99.36
14	-0.5	1.400	1.13	1.13	98.87
18	0.0	1.000	2.10	2.10	97.90
25	0.5	.710	5.13	5.13	94.87
35	1.0	.500	17.29	17.29	82.71
45	1.5	.355	35.53	35.53	64.47
60	2.0	.250	68.99	68.99	31.01
. 80	2.5	.180	92.62	92.62	7.38
120	3.0	.125	97.90	97.90	2.10
170	3.5	.090	98.36	98.36	1.64
200	3.75	.075	98.38	98.38	1.62
230	4.0	.063	99.18	99.18	.82
PAN			99.97	99.97	.03
DUT / 5 \ .	40		16). 05	DUT / 25	
PHI(5):			16): .95 75): 2.13	•	
PHI (50) PHI (95)		PIL (	75): 2.13	PHI (84)	2.32
PUT (30)	. 2./3				
SIEVE I	OSS(a)	.03		SILT/CLAY:	1.62%
SKEWNES		167		KURTOSIS:	1.02%
GRAPHIC	METHO!	D			
MEAN (F	PHI): 1	.64		SORTING:	.69
	•	.32	I	MEDIAN (mm):	.30
			D USING 5	POINT METHO	)
MOMENT	METHOD				
•	PHI): 1			SORTING:	.73
MEAN (n	am):	.32			,
IDANIIA ETT	I G' NIA TAT	w a 1/6106 7 7	111 / 13		

DATA FILE NAME: VC96-17.TAB

GRADATION ANALYSIS REPORT BROWARD CO. VIBRACORES BA II 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-26

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7	-4.0 -3.0 -2.0 -1.5 -1.0	16.000 8.000 4.000 2.800 2.000	.00 .00 .20 .39	.00 .20 .39 .62	100.00 100.00 99.80 99.61 99.38
14 18 25 35 45	-0.5 0.0 0.5 1.0	1.400 1.000 .710 .500	1.00 1.80 4.40 10.86 19.36	1.80 4.40 5 10.86 5 19.36	99.00 98.20 95.60 89.14 80.64
60 80 120 170 200 230	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075	47.15 84.67 96.89 98.04 98.11 99.03	7 84.67 9 96.89 1 98.04 1 98.11	52.85 15.33 3.11 1.96 1.89
PAN PHI(5): PHI(50) PHI(95)	.55 : 2.04	PHI	99.94 (16): 1.30 (75): 2.37	99.94  D PHI(	.97 .06 .25): 1.60 84): 2.49
SIEVE I		: .06 511		SILT/CLA KURTOSI	Y: 1.89% S: 1.265
MEAN (I	C METHO PHI): 1 nm) : MEAN WA	.86 .28	ED USING !	SORTIN MEDIAN (mm 5 POINT MET	1): .24
MEAN (1	METHOD PHI): 1 mm) :	.91		SORTIN	iG: .74

DATA FILE NAME: VC96-26.TAB

BROWARD CO. VIBRACORES BA II 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-27

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

	HI IZE	MESH SIZI		TAIN GRAM			[NED È)	PASSED (%)
5/16 5 7 10 14 18 25	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000	) ) ) ) )	1. 3. 6.		1. 3. 6.	.00 .00 .47 .67 .97 .79	100.00 100.00 99.53 99.33 99.03 98.21 96.90 93.25
35 45 60 80 120 170 200 230 PAN	1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.500 .35! .250 .180 .12! .090 .07!	5 ) ) 5 )	18. 35. 68. 92. 97. 98. 99.	64 33 64 88 13 23 06	35 68 92 97 98 98	.91 .64 .33 .64 .88 .13 .23	81.09 64.36 31.67 7.36 2.12 1.87 1.77 .94
PHI(5): PHI(50): PHI(95):	1.72		I(16) I(75)					5): 1.18 4): 2.32
SIEVE LOS		: .10 315					/CLAY TOSIS	
MEAN (mm)	1): 1		red u	SING		MEDIAN		: .30
MEAN (mm)	: 1					SO1	RTING	: .79

DATA FILE NAME: VC96-27.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-28

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .00 .25 .43 .95 1.87 4.44 15.27 31.17 64.16 90.58 97.45 97.93 97.95 98.94	.00 .00 .25 .43 .95 1.87 4.44 15.27 31.17 64.16 90.58 97.45 97.93 97.95 98.94 99.93	100.00 100.00 100.00 99.75 99.57 99.05 98.13 95.56 84.73 68.83 35.84 9.42 2.55 2.07 2.05 1.06
PHI(5): PHI(50) PHI(95)	: 1.79	PHI	(16): 1.02 (75): 2.21	PHI (25	): 1.31
SIEVE I		: .07 165		SILT/CLAY: KURTOSIS:	
GRAPHIC MEAN (F MEAN (N NOTE: M	PHI): 1 nm):	.71 .31		SORTING: MEDIAN (mm): POINT METHO	.29
	METHOD PHI): 1 nm):			SORTING:	.72
			CC 3 TO		

DATA FILE NAME: VC96-28.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-29

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

_____

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7	-4.0 -3.0 -2.0 -1.5 -1.0	16.000 8.000 4.000 2.800 2.000	.00 .00 .05 .28	.00 .05 .28	100.00 100.00 99.95 99.72 99.28
14 18 25 35 45 60 80 120 170 200 230	-0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0	1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	1.49 2.74 6.47 18.61 35.91 72.65 94.36 97.69 98.01 98.96	1.49 2.74 6.47 18.61 35.91 72.65 94.36 97.69 97.97 1.98.01 98.96	98.51 97.26 93.53 81.39 64.09 27.35 5.64 2.31 2.03 1.99 1.04
PHI (50)	.30 : 1.69 : 2.60		99.92 (16): .89 (75): 2.09	PHI(	.08 25): 1.18 84): 2.26
SIEVE I	LOSS(g) SS:	: .08 354		SILT/CLA KURTOSI	Y: 1.99% S: 1.081
MEAN (I	C METHOPHI): 1 nm): MEAN WA	.55 .34	ED USING !	SORTIN MEDIAN (mm 5 POINT MET	): .31
MEAN (I	METHOD PHI): 1 nm):			SORTIN	G: .73
DATA F	ILE NAM	E: VC96-29	.TAB		

DATA FILE NAME: VC96-29.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

.

SAMPLE NO.: VC96-30

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

_____

USCS DESCRIPTION: SP

_____

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED 1	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.0 2.5 3.0 3.5 3.75	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .00 .38 .62 .89 1.54 2.61 5.14 13.90 27.98 61.54 90.29 97.92 98.51	.00 .00 .38 .62 .89 1.54 2.61 5.14 13.90 27.98 61.54 90.29 97.92 98.51 98.54	100.00 100.00 99.62 99.38 99.11 98.46 97.39 94.86 86.10 72.02 38.46 9.71 2.08 1.49
230 PAN	4.0	.063	99.24 99.93	99.24 99.93	.76
PHI(5): PHI(50) PHI(95)	: 1.83		(16): 107 (75): 2.23		): 1.39 ): 2.39
SIEVE I SKEWNES		.07 285		SILT/CLAY: KURTOSIS:	1.46%
	HI): 1 m):	.71 .30		SORTING: MEDIAN (mm): POINT METHO	.66 .28 D
	PHI): 1	.73 .30		SORTING:	.76

DATA FILE NAME: VC96-30.TAB

BROWARD CO. VIBRACORES BA II 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-31

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE PHI MESH SIZE RETAINED (GRAMS) (%) (%)  5/8 -4.0 16.000 .00 .00 100.00  5/16 -3.0 8.000 .00 .00 100.00  5 -2.0 4.000 .54 .54 99.46  7 -1.5 2.800 .64 .64 99.36  10 -1.0 2.000 1.08 1.08 98.92  14 -0.5 1.400 2.11 2.11 97.89  18 0.0 1.000 3.65 3.65 96.35  25 0.5 .710 6.95 6.95 93.05  35 1.0 .500 14.85 14.85 85.15  45 1.5 .355 24.71 24.71 75.29  60 2.0 .250 51.07 51.07 48.93  80 2.5 .180 85.21 85.21 14.79  120 3.0 .125 97.70 97.70 2.30  170 3.5 .090 98.62 98.62 1.38  200 3.75 .075 98.69 98.69 1.31  230 4.0 .063 99.31 99.31 .69  PAN 99.94 99.94 .06  PHI(5): .20 PHI(16): 1.06 PHI(25): 1.51  PHI(50): 1.98 PHI(75): 2.35 PHI(84): 2.48  PHI(95): 2.89  SIEVE LOSS(g): .06 SILT/CLAY: 1.31%  SKEWNESS:606 SILT/CLAY: 1.31%  SKEWNESS:606 SILT/CLAY: 1.31%  MEAN (PHI): 1.72 SORTING: .71  MEAN (PHI): 1.72 SORTING: .71  MEAN (MM): .30 MEDIAN (MM): .25  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MEMAN (PHI): 1.80 SORTING: .85  MEAN (MM): .29	SAMPLE	WEIGHT	WLIEW AVOIL	(GIAMID).	100.00	
5/16						
80 2.5 .180 85.21 85.21 14.79 120 3.0 .125 97.70 97.70 2.30 170 3.5 .090 98.62 98.62 1.38 200 3.75 .075 98.69 98.69 1.31 230 4.0 .063 99.31 99.31 .69 PAN 99.94 99.94 .06  PHI(5): .20 PHI(16): 1.06 PHI(25): 1.51 PHI(50): 1.98 PHI(75): 2.35 PHI(84): 2.48 PHI(95): 2.89  SIEVE LOSS(g): .06 SILT/CLAY: 1.31% SKEWNESS:606 KURTOSIS: 1.303  GRAPHIC METHOD MEAN (PHI): 1.72 SORTING: .71 MEAN (mm): .30 MEDIAN (mm): .25 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.80 SORTING: .85	5/16 5 7 10 14 18 25 35	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .54 .64 1.08 2.11 3.65 6.95 14.85	.00 .54 .64 1.08 2.11 3.65 6.95 14.85	100.00 99.46 99.36 98.92 97.89 96.35 93.05 85.15
PHI(50): 1.98	80 120 170 200 230	2.5 3.0 3.5 3.75	.180 .125 .090 .075	85.21 97.70 98.62 98.69 99.31	85.21 97.70 98.62 98.69 99.31	48.93 14.79 2.30 1.38 1.31 .69
SKEWNESS:606 KURTOSIS: 1.303  GRAPHIC METHOD  MEAN (PHI): 1.72 SORTING: .71  MEAN (mm): .30 MEDIAN (mm): .25  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.80 SORTING: .85	PHI (50)	): 1.98				
MEAN (PHI): 1.72 SORTING: .71 MEAN (mm): .30 MEDIAN (mm): .25 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.80 SORTING: .85						
MEAN (PHI): 1.80 SORTING: .85	MEAN (1	PHI): 1 mm):	.72 .30		EDIAN (mm)	. 25
	MEAN (	PHI): 1			SORTING	.85

DATA FILE NAME: VC96-31.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-32

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED P (%)	ASSED (%)
5/8 5/16 5	-4.0 -3.0 -2.0	16.000 8.000 4.000	.00 .00	.00 .00 .15	100.00
7 10 14 18	-1.5 -1.0 -0.5 0.0	2.800 2.000 1.400 1.000	.49 .76 1.63 3.16	.49 .76 1.63 3.16	99.51 99.24 98.37 96.84
25 35 45 60	0.5 1.0 1.5 2.0	.710 .500 .355 .250	6.92 16.65 30.68 63.39		93.08 83.35 69.32 36.61
80 120 170 200	2.5 3.0 3.5 3.75	.180 .125 .090 .075	91.00 97.84 98.44 98.49	98.49	9.00 2.16 1.56 1.51
	4.0		99.22 99.96 (16): .97	99.96  PHI(25)	
PHI (95)	1.80 ): 2.79	.04	(75): 2.21	PHI(84)  SILT/CLAY:	
SKEWNES	SS:	394 		KURTOSIS:	
MEAN (1 MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.63 .32		SORTING: MEDIAN (mm): POINT METHOI	.70 .29
MEAN (	METHOD PHI): 1 mm) :	.68		SORTING:	.78
בי אוויא דיי	TT TO 37336	T. 1700622	מאמ		

DATA FILE NAME: VC96-32.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-33 SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

_____

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.19	.19	99.81
7	-1.5	2.800	.37	.37	99.63
10	-1.0	2.000	.87	.87	99.13
14	-0.5	1.400	1.84	1.84	98.16
18	0.0	1.000	3.24	3.24	96.76
25	0.5	.710	6.28	6.28	93.72
35	1.0	.500	13.89	13.89	86.11
45	1.5	.355	25.71	25.71	74.29
60	2.0	.250	58.19	58.19	41.81
.80	2.5	.180	89.38	89.38	10.62
120	3.0	.125	97.85	97.85	2.15
170	3.5	.090	98.46	98.46	1.54
200	3.75	.075	98.50	98.50	1.50
230	4.0	.063	99.23	99.23	.77
PAN			99.96	99.96	.04
PHI(5)	29	PHI(	(16): 1.09	PHI(25	5): 1.47
	): 1.87		75): 2.27	•	:): 2.41
	): 2.83	`	•	,	, , , , , ,
STEVE	LOSS(g)	: .04		SILT/CLAY:	1.50%
SKEWNE		473		KURTOSIS:	
CDADHT	C METHO				
	PHI): 1			SORTING:	.66
	mm) :			MEDIAN (mm):	
				POINT METHO	
				~~~~~	
	METHOD				
	PHI): 1			SORTING:	.78
MEAN (1	mm) :	.30			•
	TTT NAM				

DATA FILE NAME: VC96-33.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-34 SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	WEIGHT	AFTER W	IASH	(GRAMS):	100.0	0		
SIEVE SIZE	PHI SIZE	MESH SI (mm)	ZE	RETAIN (GRAM		RETA]			SSED (%)
5/8 5/16	-4.0 -3.0	16.0			00 00		00		00.00
5	-2.0	4.0		•			.53		99.47
7	-1.5	2.8		1.			.02		98.98
10	-1.0	2.0		1.			.97		98.03
14	-0.5	1.4		4.			.01		95.99
18	0.0	1.0	000	6.			.74		93.26
25	0.5	. 7	710	11.	58	11.	.58		88.42
35	1.0		500	19.			.50	;	80.50
45	1.5		355	27.			.99		72.01
60	2.0		250	52.			.30		47.70
80	2.5		180	85.			.42		14.58
120	3.0		L25	97.			.46		2.54
170	3.5		90	98.			.42		1.58
200 230	3.75 4.0)75)63	98. 99.			.49 .21		1.51
PAN	4.0	• (703	99.			. 21 . 92		.79
LAN					<i>32</i>		. 72 		.08
PHI(5)	:32	I	PHI(1	L6): .	78	1	PHT (25):	1.32
): 1.95			75): 2.					2.48
PHI (95								, .	_,,,
	LOSS(g)					SILT			1.51%
SKEWNE	ss:	 780				KUR'	rosi	s:	1.294
GRAPHT	C METHO	D							
	PHI): 1					SO	RTIN	G:	.85
	mm) :				1	MEDIAN			.26
		S CALCUI	LATEI	USING					,,,
MOMENT	METHOD								
	PHI): 1	.70				SOI	RTIN	G:	.98
	mm) :					20.		-•	• • • •
D.3. (C.)		T. 17006							

DATA FILE NAME: VC96-34.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-35

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	METGUT	AFIER WASH	(GRAMS):	100.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.17	.17	99.83
7	-1.5	2.800	.46	.46	99.54
10	-1.0	2.000	.71	.71	99.29
14	-0.5	1.400	1.30	1.30	98.70
18	0.0	1.000	2.05	2.05	97.95
25	0.5	.710	4.11	4.11	95.89
35	1.0	.500	10.72	10.72	89.28
45	1.5	.355	22.19	22.19	77.81
60	2.0	.250	58.20	58.20	41.80
80	2.5	.180	90.47	90.47	9.53
120 170	3.0 3.5	.125 .090	97.77 98.29	97.77 98.29	2.23
200	3.75	.075	98.34	98.34	1.71 1.66
230	4.0	.063	99.16	99.16	.84
PAN	4.0	•003	99.98	99.98	.02
	: .57): 1.89): 2.81		16): 1.23 75): 2.26	•	5): 1.54 4): 2.40
SIEVE :	LOSS(g)	: .02 337		SILT/CLAY KURTOSIS	
MEAN (1	C METHO: PHI): 1 mm): MEAN WA	.78		SORTING (EDIAN (mm) POINT METH	: .27
MEAN (.80 .29		SORTING	.71

DATA FILE NAME: VC96-35.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-36

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE	PHI	MESH SIZE	RETAINED		PASSED
SIZE	SIZE	(mm)	(GRAMS)	(%)	(%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.08	.08	99.92
7	-1.5	2.800	.38	.38	99.62
10	-1.0	2.000	1.08	1.08	98.92
14	-0.5	1.400	2.36	2.36	97.64
18	0.0	1.000	4.60	4.60	95.40
25	0.5	.710	9.55	9.55	90.45
35	1.0	.500	19.52	19.52	80.48
45	1.5	.355	30.62	30.62	69.38
60	2.0	.250	59.42	59.42	40.58
80	2.5	.180	89.66	89.66	10.34
120	3.0	.125	97.84	97.84	2.16
170	3.5	.090	98.40	98.40	1.60
200	3.75	.075	98.45	98.45	1.55
230	4.0	.063	99.19	99.19	. 81
PAN			99.92	99.92	.08
PHI(5):	.04	PHI	(16): .82	PHI(25): 1.25
PHI (50)			75): 2.26): 2.41
PHI (95)				,	,
SIEVE L	oss(a)	: .08		SILT/CLAY:	1.55%
SKEWNES		509		KURTOSIS:	1.130
GRAPHIC	METHO	D			
MEAN (P				SORTING:	.79
•	m) :		M	MEDIAN (mm):	.28
				POINT METHO	
MOMENT	METHOD				
		.67		SORTING:	.85
	•	.32			

DATA FILE NAME: VC96-36.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-37

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .00 .23 .44 .79 1.29 2.08 3.93 8.72	.00 .00 .23 .44 .79 1.29 2.08 3.93 8.72	100.00 100.00 99.77 99.56 99.21 98.71 97.92 96.07 91.28
45 60 80 120 170 200 230 PAN	1.5 2.0 2.5 3.0 3.5 3.75 4.0	.355 .250 .180 .125 .090 .075 .063	16.57 46.80 86.20 97.67 98.47 98.51 99.23 99.95	16.57 46.80 86.20 97.67 98.47 98.51 99.23 99.95	83.43 53.20 13.80 2.33 1.53 1.49 .77
PHI(5): PHI(50) PHI(95)	: 2.04		16): 1.46 75): 2.36	PHI(25 PHI(84	5): 1.64 4): 2.47
SIEVE I		: .05 581		SILT/CLAY: KURTOSIS:	
	HI): 1 m):	.89 .27		SORTING: MEDIAN (mm): POINT METHO	.24
MOMENT MEAN (P MEAN (m				SORTING	.71

DATA FILE NAME: VC96-37.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-39

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	111 1211 7711011	(014115)	200.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000	.00 .00 .11 .36 .81 1.64 3.01	.00 .00 .11 .36 .81 1.64 3.01	100.00 100.00 99.89 99.64 99.19 98.36 96.99
25 35 45 60 80 120 170 200 230 PAN	0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.710 .500 .355 .250 .180 .125 .090 .075	5.99 13.57 24.73 57.64 89.11 97.64 98.27 98.32 99.14 99.93	5.99 13.57 24.73 57.64 89.11 97.64 98.27 98.32 99.14 99.93	94.01 86.43 75.27 42.36 10.89 2.36 1.73 1.68 .86
PHI (50)	: .33): 1.88): 2.85		(16): 1.11 (75): 2.28	•	5): 1.50 4): 2.42
SIEVE I	LOSS(g) SS:	: .07 449		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.72 .30		SORTING MEDIAN (mm) POINT METH	: .27
MEAN (•	.77 .29		SORTING	: .77

DATA FILE NAME: VC96-39.TAB

INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-12-1

SAMPLE ELEV. (FT. NGVD): -35.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 92.72

SAMPLE WEIGHT AFTER WASH (GRAMS): 91.39

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	91.39	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .00 .21 .64 1.36 2.67 6.64 16.29 28.45 59.57 84.43 90.77 91.30 91.34 92.01 92.69	.00 .00 .00 .23 .69 1.47 2.88 7.16 17.57 30.68 64.25 91.06 97.90 98.47 98.51 99.24 99.97	100.00 100.00 100.00 99.77 99.31 98.53 97.12 92.84 82.43 69.32 35.75 8.94 2.10 1.53 1.49 .76
			16): .92 75): 2.20	PHI(2	
SIEVE SKEWNE	LOSS(g) SS:	: .03 374		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm) : MEAN WA	.62		SORTING MEDIAN (mm) POINT METH	: .29
MEAN (METHOD PHI): 1 mm):			SORTING	· .77

DATA FILE NAME: VC9612-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-12-2

SAMPLE ELEV. (FT. NGVD): -41.0

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAM	MPLE WEIGHT	GHT (GRAMS	S): 83.78	8 82.20	
SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 1.02 1.27 1.89 3.02 4.60 9.12 20.17 32.21 57.96 76.90 81.64 82.10 82.15 82.95 83.75	2.26 3.60 5.49 10.89 24.07 38.45 69.18 91.79 97.45 97.99 98.05 99.01	100.00 100.00 98.78 98.48 97.74 96.40 94.51 89.11 75.93 61.55 30.82 8.21 2.55 2.01 1.95
PHI(5) PHI(50) PHI(95)			(16): .69 (75): 2.13	•	5): 1.03 4): 2.33
SIEVE I	LOSS(g)	.03 442		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.47 .36		SORTING MEDIAN (mm) POINT METE	: .31
MEAN ()	METHOD PHI): 1 mm) :	.51 .35		SORTING	.94

DATA FILE NAME: VC9612-2.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-14-1
SAMPLE ELEV. (FT. NGVD): -38.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 83.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 81.55

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.12	.14	99.86
7	-1.5	2.800	.13	.16	99.84
10	-1.0	2.000	.28	.34	99.66
14	-0.5	1.400	.62	.75	99.25
18	0.0	1.000	1.26	1.52	98.48
25 35	0.5	.710 .500	2.81 7.02	3.38 8.45	96.62
35 45	1.0 1.5	.355	13.97	16.82	91.55
60	2.0	.250	38.87	46.81	83.18 53.19
.80	2.5	.180	71.08	85.60	14.40
120	3.0	.125	80.58	97.04	2.96
170	3.5	.090	81.49	98.13	1.87
200	3.75		81.49	98.13	1.87
230	4.0	.063	82.29		.90
PAN	4.0	• • • • •	83.04	100.00	.00
PHI(5):	.66	PHI	(16): 1.45	PHI(2	5): 1.64
PHI (50)			(75): 2.36		4): 2.48
PHI (95)			`	•	,
SIEVE 1	LOSS(g)			SILT/CLAY	
SKEWNES	ss:	498		KURTOSIS	: 1.269
	METHO:				
MEAN (I			_	SORTING	
	nm):			MEDIAN (mm)	
NOTE: 1	MEAN WA	S CALCULATI	ED USING 5	POINT METH	OD
MOMENTO	MEMILOD				
MOMENT MEAN ()	METHOD PHI): 1			SORTING	. 68
,	nm) :			POKITING	
(1	·	 			

DATA FILE NAME: VC9614-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-14-2

SAMPLE ELEV. (FT. NGVD): -44.0

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 67.38

		GHT (GRAMS AFTER WASH			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .19 .47 .67 1.00 1.77 4.18 9.89 16.95 39.07 61.79 65.81 66.08 66.11	6.20 14.68 25.16 57.98 91.70 97.67 98.07 98.12 99.06	100.00 100.00 99.72 99.30 99.01 98.52 97.37 93.80 85.32 74.84 42.02 8.30 2.33 1.93 1.88
PHI (50	: .33): 1.88): 2.78		67.37 16): 1.06 75): 2.25	PHI (2	.01 5): 1.49 4): 2.39
	LOSS(g)	.01 491		SILT/CLAY KURTOSIS	
MEAN (1	C METHO: PHI): 1 mm) : MEAN WA	.69 .31		SORTING MEDIAN (mm) POINT METH	: .27
MEAN (METHOD PHI): 1 mm) :			SORTING	· .77
DATA F	ILE NAM	E: VC9614-2	.TAB		

DATA FILE NAME: VC9614-2.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-17 1

SAMPLE ELEV. (FT. NGVD): -33.5 SAMPLE DEPTH (FT.): -1.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 82.38

SAMPLE WEIGHT AFTER WASH (GRAMS): 81.13

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .20 .38 .65 1.09 1.98 4.63 14.55 29.24	.00 .00 .24 .46 .79 1.32 2.40 5.62 17.66 35.49	100.00 100.00 99.76 99.54 99.21 98.68 97.60 94.38 82.34 64.51
60 80 120 170 200 230 PAN	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075 .063	57.00 76.36 80.60 81.06 81.07 81.72 82.36	69.19 92.69 97.84 98.40 98.41 99.20 99.98	30.81 7.31 2.16 1.60 1.59 .80
PHI(5): PHI(50): PHI(95):	: 1.72		(16): .93 (75): 2.12	•): 1.21): 2.32
SIEVE LO		.02 219		SILT/CLAY: KURTOSIS:	1.59%
MEAN (m	HI): 1	.62 .33		SORTING: IEDIAN (mm): POINT METHO	.30
MOMENT I MEAN (PI MEAN (mi	HI): 1	.62 .32		SORTING:	.75

DATA FILE NAME: VC9617-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-17-2 SAMPLE ELEV. (FT. NGVD): -37.5

SAMPLE DEPTH (FT.): -5.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DDV CAMPLE WETCHT (CRAMS) - 73 47

		GHT (GRAMS AFTER WASH		72.31	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .08 .32 .63 1.22 3.27 12.32 26.14 50.49 67.97 71.99 72.23 72.24 72.85 73.43	.00 .00 .11 .44 .86 1.66 4.45 16.77 35.58 68.72 92.51 97.99 98.31 98.33 99.16 99.95	100.00 100.00 100.00 99.89 99.56 99.14 98.34 95.55 83.23 64.42 31.28 7.49 2.01 1.69 1.67 .84
PHI(5) PHI(50) PHI(95)			16): .97 75): 2.13		5): 1.22 4): 2.32
SIEVE I	LOSS(g): SS:	04 137		SILT/CLAY KURTOSIS	
MEAN (1	C METHOI PHI): 1 mm) : MEAN WAS	.65 .32		SORTING EDIAN (mm) POINT METHO	.30
MEAN (METHOD PHI): 1 mm) :	.65 .32		SORTING	.70

DATA FILE NAME: VC9617-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-26-1

SAMPLE ELEV. (FT. NGVD): -41.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 64.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.86

PWILLIE	WEIGHT	. WEITH AWOII	(GIGIGIS).	02.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	.355 .250	.00 .00 .11 .21 .32 .62 1.04 2.34 5.75 10.19 26.08	.00 .00 .17 .33 .50 .97 1.63 3.66 8.98 15.92 40.75	100.00 100.00 99.83 99.67 99.50 99.03 98.38 96.34 91.02 84.08 59.25
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.125 .090 .075	51.64 61.65 62.78 62.82 63.41 63.98	80.69 96.33 98.09 98.16 99.08 99.97	19.31 3.67 1.91 1.84 .92 .03
PHI (50	: .63): 2.12): 2.96	PHI(16): 1.50 75): 2.43		5): 1.68
SIEVE SKEWNE	LOSS(g) SS:	: .02 587		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.96 .26		SORTING MEDIAN (mm) POINT METHO	. 23
MEAN (METHOD PHI): 1 mm):	.99 .25		SORTING	.72
DAMA E	דדים אואינ	で・ ひのりょうにっし	מ גוחו		

DATA FILE NAME: VC9626-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-26-2

SAMPLE ELEV. (FT. NGVD): -44.0 SAMPLE DEPTH (FT.): -4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.27
SAMPLE WEIGHT AFTER WASH (GRAMS): 64.18

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	64.18	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .08 .10 .27 .65 1.37 3.51 7.76 12.99 29.86 55.54 63.53 64.06 64.09 64.64	.00 .00 .12 .15 .41 1.00 2.10 5.38 11.89 19.90 45.75 85.09 97.33 98.15 98.19 99.04	100.00 100.00 99.88 99.85 99.59 99.00 97.90 94.62 88.11 80.10 54.25 14.91 2.67 1.85 1.81
PAN PHI(5) PHI(50	44): 2.05		65.20 16): 1.26 75): 2.37		.11 5): 1.60 4): 2.49
PHI (95): 2.90 LOSS(g)			SILT/CLAY KURTOSIS	· 1.81%
GRAPHI MEAN (MEAN (C METHO: PHI): 1 mm):	D .83 .28		SORTING MEDIAN (mm) POINT METH	: .61 : .24
MEAN (METHOD PHI): 1 mm) :	.27		SORTING	: .74
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DATA FILE NAME: VC9626-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-26-3
SAMPLE ELEV. (FT. NGVD): -47.0

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 72.76

SAMPLE WEIGHT AFTER WASH (GRAMS): 71.40

	WIIICIII	MITTIN MADII	(Giano).	71.40	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355	.00 .00 .19 .38 .58 .75 1.38 3.58 9.15 16.65	.00 .00 .26 .52 .80 1.03 1.90 4.92 12.58 22.88 54.34	100.00 100.00 99.74 99.48 99.20 98.97 98.10 95.08 87.42 77.12 45.66
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.090	64.62 70.84 71.27 71.33 72.02 72.71	88.81 97.36 97.95 98.03 98.98 99.93	11.19 2.64 2.05 1.97 1.02 .07
PHI (50)	: .51): 1.93): 2.86		16): 1.17 75): 2.30	PHI(2: PHI(8:	5): 1.53 4): 2.43
SIEVE SKEWNES	LOSS(g) SS:	: .05 391		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.78		SORTING MEDIAN (mm) POINT METH	.26
MEAN (METHOD PHI): 1 mm) :			SORTING	: .75

DATA FILE NAME: VC9626-3.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-27-1

SAMPLE ELEV. (FT. NGVD): -36.5

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAN	MPLE WEI	GHT (GRAMS AFTER WASH): 71.43 (GRAMS):	70.31	
SIEVE SIZE	PHI	MESH SIZE (mm)		RETAINED	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .05 .16 .25 .47 .88 2.29 8.63 19.84 45.87 65.93 69.96 70.12 70.24 70.81 71.38	12.08 27.78 64.22 92.30 97.94 98.17 98.33 99.13	100.00 100.00 99.93 99.78 99.65 99.34 98.77 96.79 87.92 72.22 35.78 7.70 2.06 1.83 1.67
PHI (50	: .60): 1.80): 2.74		(16): 1.12 (75): 2.19		5): 1.41 4): 2.35
SIEVE :		.05 220	,	SILT/CLAY KURTOSIS	
MEAN (C METHON PHI): 1 mm): MEAN WA	.72 .30		SORTING MEDIAN (mm) POINT METH	: .29
MEAN (METHOD PHI): 1 mm):			SORTING	: .66
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DATA FILE NAME: VC9627-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-27-2

SAMPLE ELEV. (FT. NGVD): -40.5

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.14

SAMPLE WEIGHT AFTER WASH (GRAMS): 67.94

DAM DI	MILCHI	MI I III WIIDII	(0101110).	07.54	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.69	1.00	99.00
7	-1.5	2.800	.88	1.27	98.73
10	-1.0	2.000	1.24	1.79	98.21
14	-0.5	1.400	2.28	3.30	96.70
18	0.0	1.000	3.87	5.60	94.40
25	0.5	.710	7.92	11.46	88.54
35	1.0	.500	19.37	28.02	71.98
45	1.5	.355	31.88	46.11	53.89
60	2.0		51.03	73.81	26.19
80	2.5		64.36		6.91
120	3.0		67.61		2.21
170	3.5		67.81		1.92
200	3.75		67.82		1.91
230	4.0	.063	68.43		1.03
PAN			69.04	99.86	.14
PHT (5)	:13	PHT (16): .64	PHT (2	5): .91
PHT (50): 1.57	PHT (75): 2.03	•	4): 2.26
): 2.70		,	(0	-,
		: .10		SILT/CLAY	
SKEWNE	ss:	348		KURTOSIS	: 1.035
GRAPHI	C METHO	D			
	PHI): 1			SORTING	: .81
	mm):			MEDIAN (mm)	
				POINT METH	
WOMEN'S					
	METHOD			CODULTIC	
	PHI): 1			SORTING	: .91
MEAN (1	mm) :	. 3 /			
מ גייער	TTE NAM	F: VC9627-2	תאם		

DATA FILE NAME: VC9627-2.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-27-3

SAMPLE ELEV. (FT. NGVD): -44.5

SAMPLE DEPTH (FT.): -10.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.36

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.36

Omil LL	""	111 1111 1111111	(010110)	33130	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .02 .05 .15 .33 .60 1.35 6.42 17.06 39.41 53.14 55.21 55.31		100.00 100.00 99.96 99.91 99.73 99.41 98.94 97.60 88.61 69.73 30.07 5.71 2.04 1.86 1.85
	.64		56.33 16): 1.12		.05 5): 1.36
): 1.75): 2.60	PH1 (75): 2.10	PHI(8	4): 2.29
SIEVE :	LOSS(g) SS:	: .03 219		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.68 .31		SORTING MEDIAN (mm) POINT METH	: .30
MEAN (METHOD PHI): 1 mm):			SORTING	· .62
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DATA FILE NAME: VC9627-3.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-28-1

SAMPLE ELEV. (FT. NGVD): -33.0

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.76

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.77

SAMPLE	MEIGHI	AFIER WASH	(GRAND).	55.77	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0		.00 .00 .00 .11 .24 .59 1.27 3.07 9.67 18.89 38.09 52.23 55.46 55.70 55.71	.00 .00 .00 .19 .42 1.04 2.24 5.41 17.04 33.28 67.11 92.02 97.71 98.13 98.15 99.04	100.00 100.00 100.00 99.81 99.58 98.96 97.76 94.59 82.96 66.72 32.89 7.98 2.29 1.87 1.85
PAN			56.72	99.93	.07
PHI(5) PHI(50 PHI(95		PHI(16): .96 75): 2.16		5): 1.25 4): 2.34
SIEVE SKEWNE	LOSS(g) SS:	: .04 215		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm): MEAN WA	.65		SORTING MEDIAN (mm) POINT METH	: .30
MEAN (METHOD PHI): 1 mm):	.66		SORTING	· .72

DATA FILE NAME: VC9628-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-28-2

SAMPLE ELEV. (FT. NGVD): -36.5

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 59.89

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.62

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .18 .26 .52 .92 2.15 8.23 17.58 36.90 53.50 58.23 58.55 58.55	13.74 29.35 61.61 89.33 97.23 97.76 97.78 98.86	100.00 100.00 100.00 99.70 99.57 99.13 98.46 96.41 86.26 70.65 38.39 10.67 2.77 2.24 2.22 1.14
	.57): 1.82): 2.86		59.85 (16): 1.07 (75): 2.24	PHI(2	.07 5): 1.36 4): 2.40
SIEVE SKEWNES	LOSS(g)	: .04 159		SILT/CLAY KURTOSIS	
MEAN (1	C METHOPHI): 1 mm): MEAN WA	.74 .30		SORTING MEDIAN (mm) POINT METH	: .28
MEAN (METHOD PHI): 1 mm) :			SORTING	: .71

DATA FILE NAME: VC9628-2.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-29-1

SAMPLE ELEV. (FT. NGVD): -35.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 54.76

SAMPLE WEIGHT AFTER WASH (GRAMS): 53.61

PAN 54.71 99.91 .09 PHI(5): .17 PHI(16): .78 PHI(25): 1.07 PHI(50): 1.64 PHI(75): 2.00 PHI(84): 2.24 PHI(95): 2.63 SIEVE LOSS(g): .05 SILT/CLAY: 2.23% SKEWNESS:328 KURTOSIS: 1.084 GRAPHIC METHOD MEAN (PHI): 1.49 SORTING: .73 MEAN (mm): .36 MEDIAN (mm): .32 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD	DAME DH	WILGHI	AT THE WINT	(GIGHID).	33.01	
5/16					'	
230 4.0 .063 54.13 98.84 1.16 PAN 54.71 99.91 .09 PHI(5): .17 PHI(16): .78 PHI(25): 1.07 PHI(50): 1.64 PHI(75): 2.00 PHI(84): 2.24 PHI(95): 2.63 SIEVE LOSS(g): .05 SILT/CLAY: 2.23% SKEWNESS:328 KURTOSIS: 1.084 GRAPHIC METHOD MEAN (PHI): 1.49 SORTING: .73 MEAN (mm): .36 MEDIAN (mm): .32 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.52 SORTING: .78	5/16 5 7 10 14 18 25 35 45 60 80 120	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .04 .20 .54 .99 1.85 4.47 12.23 22.19 41.02 51.56 53.37	.00 .07 .37 .99 1.81 3.38 8.16 22.33 40.52 74.91 94.16 97.46	100.00 99.93 99.63 99.01 98.19 96.62 91.84 77.67 59.48 25.09 5.84 2.54
PHI(50): 1.64 PHI(75): 2.00 PHI(84): 2.24 PHI(95): 2.63 SIEVE LOSS(g): .05 SILT/CLAY: 2.23% SKEWNESS:328 KURTOSIS: 1.084 GRAPHIC METHOD MEAN (PHI): 1.49 SORTING: .73 MEAN (mm): .36 MEDIAN (mm): .32 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.52 SORTING: .78	230			54.13	98.84	2.23 1.16 .09
SKEWNESS:328 KURTOSIS: 1.084 GRAPHIC METHOD MEAN (PHI): 1.49 SORTING: .73 MEAN (mm): .36 MEDIAN (mm): .32 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.52 SORTING: .78	PHI (50): 1.64	PHI (16): .78 75): 2.00	PHI (2: PHI (8:	
MEAN (PHI): 1.49 SORTING: .73 MEAN (mm): .36 MEDIAN (mm): .32 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.52 SORTING: .78				·		
MEAN (PHI): 1.52 SORTING: .78	MEAN (1	PHI): 1 mm):	.49 .36		MEDIAN (mm)	: .32
	MEAN (PHI): 1	.52		SORTING	: .78

DATA FILE NAME: VC9629-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-29-2

SAMPLE ELEV. (FT. NGVD): -38.0

SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 66.21

		AFTER WASH			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .02 .13 .33 .80 1.45 3.34 10.24 21.19 46.84 62.58 64.81 65.00 65.03 65.60 66.16		100.00 100.00 99.97 99.80 99.50 98.79 97.81 94.96 84.53 68.00 29.26 5.48 2.11 1.83 1.78 .93
PHI (50	: .49): 1.73): 2.57		16): 1.02 75): 2.09		5): 1.29 4): 2.28
SIEVE :	LOSS(g) SS:	: .05 317		SILT/CLAY KURTOSIS	
MEAN (C METHOPHI): 1 mm): MEAN WA	.62 .33		SORTING MEDIAN (mm) POINT METH	: .30
MEAN (METHOD PHI): 1 mm) :			SORTING	: .69
ים מחא דם	TT TO 37336	. T700 C00 0	m 7 m		

DATA FILE NAME: VC9629-2.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC9629-3

SAMPLE ELEV. (FT. NGVD): -42.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 51.91

SAMPLE WEIGHT AFTER WASH (GRAMS): 51.06

SAMPLE	WEIGHI	AFIER WAS	n (GRAMS).	51.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .03 .17 .59 1.15 2.18 5.36	.00 .06 .33 1.14 2.22 4.20 10.33	100.00 100.00 99.94 99.67 98.86 97.78 95.80 89.67 72.78
45 60 80 120 170 200 230 PAN	1.5 2.0 2.5 3.0 3.5 3.75 4.0	.355 .250 .180 .125 .090 .075	23.78 40.56 49.54 50.85 50.96 50.98	45.81 78.14 95.43 97.96 98.17 98.21 99.05	54.19 21.86 4.57 2.04 1.83 1.79 .95
PHI (50)	.07): 1.56): 2.49		(16): .67 (75): 1.95		25): .93 34): 2.17
SIEVE SKEWNES	LOSS(g) SS:	: .06 384		SILT/CLAY KURTOSIS	
GRAPHIC METHOD MEAN (PHI): 1.39 SORTING: .75 MEAN (mm): .38 MEDIAN (mm): .34 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD					
MEAN (METHOD PHI): 1 mm) :	.42		SORTING	3: .79

DATA FILE NAME: VC9629-3.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-30-1

SAMPLE ELEV. (FT. NGVD): -33.0

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.85

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.06

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.5 3.75	1.000 .710 .500 .355 .250 .180 .125 .090	.00 .06 .10 .18 .36 .67 1.52 5.59 14.00 37.32 57.26 62.51 62.98 63.00 63.40	.28 .56 1.05 2.38 8.75 21.93 58.45 89.68 97.90 98.64 98.67	100.00 100.00 99.91 99.84 99.72 99.44 98.95 97.62 91.25 78.07 41.55 10.32 2.10 1.36
230 PAN	4.0	.063	63.80		.70
PHI(5): PHI(50) PHI(95)	: 1.88	PHI	(16): 1.28 (75): 2.26		5): 1.54 4): 2.41
SIEVE I	,	: .05 211		SILT/CLAY KURTOSIS	
	PHI): 1	.82 .28	ED USING 5	SORTING MEDIAN (mm) POINT METH	: .27
•	METHOD PHI): 1 mm) :	.84		SORTING	.63

DATA FILE NAME: VC9630-1.TAB

BROWARD CO. VIBRACORES BA II 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-30-2

SAMPLE ELEV. (FT. NGVD): -36.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.28

SAMPLE WEIGHT AFTER WASH (GRAMS): 67.24

DIHIL LL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .49 .79 1.10 1.84 3.04 5.74 13.65 23.98 44.51 62.15 66.88	.00 .00 .72 1.16 1.61 2.69 4.45 8.41 19.99 35.12 65.19 91.02	100.00 100.00 99.28 98.84 98.39 97.31 95.55 91.59 80.01 64.88 34.81 8.98
120 170 200 230 PAN	3.0 3.5 3.75 4.0	.090 .075 .063	67.16 67.18 67.71 68.24	97.95 98.36 98.39 99.17 99.94	2.05 1.64 1.61 .83
	: .07): 1.75): 2.79		16): .83 75): 2.19		5): 1.17 1): 2.36
SIEVE :	LOSS(g) SS:	: .04 416		SILT/CLAY KURTOSIS	
MEAN (C METHOPHI): 1 mm): MEAN WA	.56 .34		SORTING MEDIAN (mm) POINT METHO	.30
MEAN (METHOD PHI): 1 mm) :			SORTING	.88
D 2 CD 2 TO	TT TO 37336	T. TTOO COO O	m x m		

DATA FILE NAME: VC9630-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-31-1

SAMPLE ELEV. (FT. NGVD): -36.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 60.28

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.61

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINEI (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .07 .12 .34 .82 1.57 3.23 7.58 13.29	0 .00 7 .12 2 .20 4 .56 2 1.36 7 2.60 3 5.36 8 12.57 9 22.05	100.00 100.00 99.88 99.80 99.44 98.64 97.40 94.64 87.43 77.95 51.41
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075 .063	50.73 58.93 59.53 59.53	3 84.16 1 97.73 3 98.76 7 98.82 0 99.38	15.84 2.27 1.24 1.18 .62 .05
PHI(5): PHI(50) PHI(95)	: 2.02		(16): 1.18 (75): 2.3		25): 1.56 34): 2.50
SIEVE L		: .03 535		SILT/CLAY KURTOSIS	
MEAN (m	HI): 1 m) :	.81 .29	ED USING	SORTING MEDIAN (mm) 5 POINT METH	: .25
	METHOD HI): 1 m):	.87		SORTING	G: .77

DATA FILE NAME: VC9631-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-31-2

SAMPLE ELEV. (FT. NGVD): -40.5

SAMPLE DEPTH (FT.): -5.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.05

SAMPLE WEIGHT AFTER WASH (GRAMS): 75.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .78 .89 1.29 2.28 3.71 6.71 13.34 21.18 41.06 65.75 74.28 74.88 74.93 75.47	.00 1.03 1.17 1.70 3.00 4.88 8.82 17.54 27.85 53.99 86.46 97.67 98.46 98.53 99.23	100.00 100.00 98.97 98.83 98.30 97.00 95.12 91.18 82.46 72.15 46.01 13.54 2.33 1.54 1.47
PHI (5) PHI (50) PHI (95)			(16): .91 (75): 2.32		25): 1.36 34): 2.46
SIEVE I	LOSS(g) SS:	: .05 613		SILT/CLAY	
MEAN ()	C METHO PHI): 1 mm): MEAN WA	.64 .32		SORTING MEDIAN (mm) POINT METI	: .26
MEAN (METHOD PHI): 1 mm) :	.72 .30		SORTING	G: .93
DATA F	ILE NAM	E: VC9631-2	2.TAB		

DATA FILE NAME: VC9631-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-32-1

SAMPLE ELEV. (FT. NGVD): -33.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.22

SAMPLE WEIGHT AFTER WASH (GRAMS): 64.46

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .00 .00 .03 .05 .22 .50	.00 .00 .00 .05 .08 .34 .77	100.00 100.00 100.00 99.95 99.92 99.66 99.23 97.72
35 45 60 80 120 170 200 230 PAN	1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.500 .355 .250 .180 .125 .090 .075	5.55 14.21 38.26 58.78 63.85 64.38 64.41 64.80 65.19	58.66 90.13 97.90 98.71 98.76 99.36	91.49 78.21 41.34 9.87 2.10 1.29 1.24 .64
PHI(5): PHI(50) PHI(95)	: 1.88		(16): 1.28 (75): 2.26		25): 1.54 34): 2.40
SIEVE I SKEWNES		: .03 208		SILT/CLAY KURTOSIS	
	PHI): 1 nm) :	.82 .28		SORTING MEDIAN (mm) POINT METI): .27
	METHOD PHI): 1 m):	.84		SORTING	G: .61

DATA FILE NAME: VC9632-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-32-2

SAMPLE ELEV. (FT. NGVD): -36.0

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.31

SAMPLE WEIGHT AFTER WASH (GRAMS): 67.25

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 .00 .10 .50 .78 1.74 3.47 7.35 15.94 25.65 45.39 62.60 66.82 67.16	37.55 66.45 91.64 97.82	100.00 100.00 99.85 99.27 98.86 97.45 94.92 89.24 76.67 62.45 33.55 8.36 2.18
200 230 PAN	3.75 4.0	.075 .063	67.20 67.74 68.28	99.17	1.62 .83 .04
PHI(5): PHI(50) PHI(95)	: 1.72		(16): .71 (75): 2.17		5): 1.06 4): 2.35
SIEVE L		: .03 411		SILT/CLAY KURTOSIS	
	PHI): 1 m):	.51 .35		SORTING MEDIAN (mm) POINT METH	: .30
•	HI): 1			SORTING	: .87

DATA FILE NAME: VC9632-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96 _____

SAMPLE NO.: VC96-32-3

SAMPLE ELEV. (FT. NGVD): -38.5

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 75.12 SAMPLE WEIGHT AFTER WASH (GRAMS): 73.83

SAMPLE	WEIGHT	AFIER WASH	(GIGHID).	73.63	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	30	.40	99.60
7	-1.5	2.800	.59	.79	99.21
10	-1.0	2.000	.90	1.20	98.80
14	-0.5	1.400	1.58	2.10	97.90
18	0.0	1.000	2.73	3.63	96.37
25	0.5	.710	5.71	7.60	92.40
35	1.0	.500	13.48	17.94	82.06
45	1.5	.355	24.76	32.96	67.04
60	2.0	.250	49.40	65.76	34.24
80	2.5	.180	68.56	91.27	8.73
120	3.0		73.46	97.79	2.21
170	3.5		73.75	98.18	1.82
200	3.75		73.78	98.22	1.78
230	4.0	.063	74.43	99.09	.91
PAN			75.09	99.96	.04
DHT (5)	: .17	PHT (16): .91	DHT (2)	5): 1.23
): 1.76		75): 2.18	•	4): 2.36
): 2.79	1111	, 5, . 2.10	1111(0	1). 2.50
areve :					
	LOSS(g)			SILT/CLAY	
SKEWNE	SS:	 387		KURTOSIS	: 1.132
CRAPHT	C METHO	ח			
	PHI): 1			SORTING	.73
	mm) :		1	MEDIAN (mm)	
		S CALCULATE			
				TOINI MEIM	
MOMENT	METHOD				
	PHI): 1			SORTING	.82
	mm) :			= = = = = = = = = = = = = = = = = = = =	
השתם די	TT.F NAM	F. VC9632-3	Mγ		

DATA FILE NAME: VC9632-3.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-33-1

SAMPLE ELEV. (FT. NGVD): -32.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.45

SAMPLE WEIGHT AFTER WASH (GRAMS): 79.41

0.11.1. 11.1	111111111	AFIEK WADII	(0101115).	73.44	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .00 .29 .36 .47 .77 1.35 3.04	.00 .36 .45 .58 .96 1.68 3.78	100.00 100.00 99.64 99.55 99.42 99.04 98.32 96.22 89.86
45 60 80 120 170 200 230 PAN	1.5 2.0 2.5 3.0 3.5 3.75 4.0	.355 .250 .180 .125 .090 .075	17.53 45.37 71.96 78.75 79.33 79.35 79.88 80.41	56.40 89.45 97.89 98.61 98.63 99.29	78.21 43.60 10.55 2.11 1.39 1.37 .71
PHI(5) PHI(50) PHI(95)		PHI(16): 1.25 75): 2.28	PHI(2 PHI(8	5): 1.55 4): 2.42
SIEVE I		: .04 335		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.80 .29		SORTING MEDIAN (mm) POINT METH	: .27
MEAN (METHOD PHI): 1 mm):	.83		SORTING	.70

DATA FILE NAME: VC9633-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-33-2

SAMPLE ELEV. (FT. NGVD): -34.9

SAMPLE DEPTH (FT.): -3.4 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 64.11

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.12

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.03	.05	99.95
7	-1.5	2.800	.19	.30	99.70
10	-1.0	2.000	.70	1.09	98.91
14	-0.5	1.400	1.63	2.54	97.46
18	0.0	1.000	2.86	4.46	95.54
25	0.5	.710	5.28	8.24	91.76
35	1.0	.500	10.79	16.83	83.17
45	1.5	.355	18.46	28.79	71.21
60	2.0	.250	38.21	59.60	40.40
80	2.5	.180	57.27	89.33	10.67
120	3.0	.125	62.71	97.82	2.18
170	3.5	.090	63.05		1.65
200	3.75	.075	63.08		1.61
230	4.0	.063	63.58	99.18	.82
PAN			64.09	99.97	.03
DHT (5)	.07	PHT	(16): .95	PHT (25): 1.34
	1.84		(75): 2.26): 2.41
	2.83	4 444	(,0,1 2120	1111(01	,, 2,41
		: .02		SILT/CLAY:	
SKEWNES	SS: 	537		KURTOSIS:	1.234
GRAPHI	C METHO	D			
	PHI): 1		•	SORTING:	.73
•	nm) :		.]	MEDIAN (mm):	
				POINT METHO	
				~	
	METHOD			CODMING	
•	PHI): 1			SORTING:	.83
MEAN (1	mm) :	. J L			
בייייי ביי	TTE NAM	F. VC9633-	ס תאם		

DATA FILE NAME: VC9633-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-34-1

SAMPLE ELEV. (FT. NGVD): -36.2

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.98

SAMPLE WEIGHT AFTER WASH (GRAMS): 65.01

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	65.01	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.07	.11	99.89
7 10	-1.5 -1.0	2.800 2.000	.36	.55 1.26	99.45
14	-0.5	1.400	2.00		98.74 96.97
18	0.0	1.000	3.77		94.29
25	0.5	.710	6.90		89.54
35	1.0	.500	12.01		81.80
45	1.5	.355	17.67	26.78	73.22
60	2.0	.250	33.99	51.52	48.48
.80	2.5	.180	56.09		14.99
120	3.0	.125	64.23	97.35	2.65
170	3.5	.090	64.89		1.65
200 230	3.75 4.0	.075 .063	64.93 65.43		1.59
PAN	4.0	• 003	65.43		.83 .08
PHT (5)	·13	 PHT (16): .86		25): 1.40
PHI (50)			75): 2.35	•	34): 2.48
): 2.90	(, , , , , , , , , , , , , , , , , , , ,		7-7. 2.40
SIEVE	LOSS (g)	: .05		SILT/CLAY	7: 1.59%
SKEWNE		717		KURTOSIS	
GRAPHI	C METHO	D			
	PHI): 1			SORTING	3: .81
	mm) :			MEDIAN (mm)	
NOTE: 1	MEAN WA	S CALCULATE	D USING 5	POINT METH	HOD
MOMENT	METHOD				
	PHI): 1	.74		SORTING	.91
MEAN (1	mm):	.30			

DATA FILE NAME: VC9634-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-34-2

SAMPLE ELEV. (FT. NGVD): -39.7

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 73.96

SAMPLE WETCHT AFTER WASH (CRAMS) .

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	72.99	
SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .77 1.18 2.09 3.85 5.91 9.58 15.60 21.79 39.39 63.54 72.18 72.86 72.91 73.40 73.90	98.58	100.00 100.00 98.96 98.40 97.17 94.79 92.01 87.05 78.91 70.54 46.74 14.09 2.41 1.49 1.42 .75
PHI (50	:54): 1.93): 2.89	•	16): .69 75): 2.33	•): 1.23): 2.47
SIEVE :	LOSS(g) SS:	: .06 851		SILT/CLAY: KURTOSIS:	
MEAN (.49 .36		SORTING: MEDIAN (mm): POINT METHO	.26
MEAN (METHOD PHI): 1 mm) :			SORTING:	1.04

DATA FILE NAME: VC9634-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-35-1

SAMPLE ELEV. (FT. NGVD): -32.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 84.16

SAMPLE WEIGHT AFTER WASH (GRAMS): 82.89

SAMPLE	WEIGHT	AFTER	WASH	(GRAMS)	• •	2.09		
SIEVE SIZE	PHI SIZE	MESH S (mm)	IZE	RETAINE (GRAMS		ETAINED (%)		SED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	4. 2. 2. 1.	000 000 800 000 400 000 710 500 355 250 180	.0 .0 .0 .2 .5 1.0 2.7 8.2 18.0 48.4 76.2	0 13 18 14 17 19 16 13 10 10	.00 .04 .10 .29 .68 1.30 3.28 9.78 21.39 57.51	10	00.00 00.00 09.96 09.90 09.71 09.32 08.70 06.72 06.72 07.22 78.61 42.49 9.39
120 170 200 230 PAN	3.0 3.5 3.75 4.0	•	125 090 075 063	82.4 82.8 82.8 83.5 84.1	34 37 51	97.94 98.43 98.47 99.23 100.00		2.06 1.57 1.53 .77 .00
PHI(5) PHI(50 PHI(95				16): 1.2 75): 2.2		PHI PHI	(25): (84):	
SIEVE SKEWNE	LOSS(g) SS:	: .00 318		ao ao ao ao ao ao ao ao		ILT/CL		1.53%
MEAN (C METHO PHI): 1 mm): MEAN WA	.80 .29	JLATE:	D USING		SORTII IAN (mi	m):	.57 .27
MEAN (METHOD PHI): 1 mm) :	.83				SORTI	NG:	.65

DATA FILE NAME: VC9635-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-35-2

SAMPLE ELEV. (FT. NGVD): -36.5 SAMPLE DEPTH (FT.): -5.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 57.87

SAMPLE WEIGHT AFTER WASH (GRAMS): 56.89

DAMELLE	MILLOILL	711 1 1111 11111111	(010115) .	30.03	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5	-4.0 -3.0 -2.0	16.000 8.000 4.000	.00 .00 .15	.00 .00 .26	100.00 100.00 99.74
7 10 14	-1.5 -1.0 -0.5	2.800 2.000 1.400	.42 .59 1.02	.73 1.02 1.76	99.27 98.98 98.24
18 25 35	0.0 0.5 1.0		1.51 2.74 6.61	2.61 4.73 11.42	97.39 95.27 88.58
45 60 80	1.5 2.0 2.5	.180	13.19 33.98 52.30	22.79 58.72 90.37	77.21 41.28 9.63
120 170 200 230	3.0 3.5 3.75 4.0	.090 .075	56.51 56.82 56.85 57.35	98.24	2.35 1.81 1.76 .90
PAN	 : .52		57.85 (16): 1.20	99.97	.03 5): 1.53
PHI (50): 1.88): 2.82		75): 2.26		1): 2.40
SKEWNE		 350		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm) : MEAN WA	.76 .29		SORTING MEDIAN (mm) POINT METHO	.27
MEAN (METHOD PHI): 1 mm) :	.78		SORTING	.75
D 3 (III 3 III	TT TO 31736	T. TOO 625	מ גדות נ		

DATA FILE NAME: VC9635-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-36-1

SAMPLE ELEV. (FT. NGVD): -35.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.11

		AFTER WASH		68.30	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .09 .51 1.45 3.27 7.12 14.14 21.17 40.36 62.35 67.83 68.22 68.24 68.65 69.07		100.00 100.00 100.00 99.87 99.26 97.90 95.27 89.70 79.54 69.37 41.60 9.78 1.29 1.26
PHI (50	: .02): 1.85): 2.80		16): .78 75): 2.26		5): 1.22 4): 2.40
SIEVE :		.04 538		SILT/CLAY KURTOSIS	
MEAN (1	C METHOIPHI): 1 mm): MEAN WA	.57 .34		SORTING MEDIAN (mm) POINT METH	: .28
MEAN (METHOD PHI): 1 mm):			SORTING	: .84

DATA FILE NAME: VC9636-1.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-36-2

SAMPLE ELEV. (FT. NGVD): -38.5

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 55.03

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.18

SAMPLE	WEIGHT	AL LEK	MADII	(GIAMIL		24	LO		
SIEVE SIZE	PHI SIZE	MESH S		RETAIN (GRAN			INED	PAS	SED %)
5/8	-4.0		.000		.00		.00	10	0.00
5/16	-3.0	8.	.000		00		.00	10	0.00
5	-2.0	4.	.000		00		.00	10	0.00
7	-1.5		.800		.16		.29	9	9.71
10	-1.0		.000		67		. 22	9	8.78
14	-0.5		.400		.38		.51		7.49
18	0.0		.000		. 59		.71	9	5.29
25	0.5		.710		. 25	9	.54	9	0.46
35	1.0		.500	10	.79	19	.61	8	0.39
45	1.5	,	.355	17	.33	31	.49	6	8.51
60	2.0		.250	33	.38		.66	3	9.34
80	2.5		.180		.19		.39	1	0.61
120	3.0		.125		.79		.75		2.25
170	3.5		.090		.08		.27		1.73
200	3.75		.075		.11		.33		1.67
230	4.0		.063		. 54		.12		.88
PAN				• 54	.98	99	.91		.09
PHT (5)	: .03		PHI(16):	.82		PHI (2	 5):	1.23
): 1.82			75): 2			PHI (8		
): 2.84			,		•		-,-	
CTEVE	LOSS (g)	: .0!	 5			STIM	/CLAY	 • 1	 .67%
SKEWNE		48					TOSIS		.124
SKEWNE						NON		·	. 124
	C METHO								
	PHI): 1						RTING		.79
	mm) :					MEDIAN			.28
NOTE:	MEAN WA	S CALC	ULATE	D USIN	G 5	POINT	METH	OD	
MOMENT	METHOD								
	PHI): 1					SO:	RTING	:	.85
		.32							
DATA F	ILE NAM	E: VC9	636-2	.TAB					

DATA FILE NAME: VC9636-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-36-3

SAMPLE ELEV. (FT. NGVD): -41.2

SAMPLE DEPTH (FT.): -7.2 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 52.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 51.11

SAMPLE	METGUI	ALTEK MASH	(GRAMS).	21.11			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)		
5/8 5/16 5 7 10 14 18 25 35 45 60 80	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250	.00 .00 .26 .63 .80 1.33 2.07 4.04 8.87 14.70 30.44 46.33	.00 .00 .50 1.21 1.54 2.56 3.98 7.76 17.04 28.25 58.49 89.03	100.00 100.00 99.50 98.79 98.46 97.44 96.02 92.24 82.96 71.75 41.51 10.97		
120 170 200 230 PAN	3.0 3.5 3.75 4.0	.125 .090 .075 .063	50.65 50.99 51.04 51.51 52.00	97.33 97.98 98.08 98.99 99.92	2.67 2.02 1.92 1.01 .08		
PHI(50	: .14): 1.86): 2.86	PHI ((16): .94 (75): 2.27		5): 1.36 4): 2.42		
SIEVE	LOSS(g) SS:	: .04 491		SILT/CLAY KURTOSIS			
GRAPHIC METHOD MEAN (PHI): 1.64 SORTING: .74 MEAN (mm): .32 MEDIAN (mm): .28 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD							
MEAN (METHOD PHI): 1 mm):	.70		SORTING	.87		

DATA FILE NAME: VC9636-3.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-37-1

SAMPLE ELEV. (FT. NGVD): -34.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 73.38
SAMPLE WEIGHT AFTER WASH (GRAMS): 72.29

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	72.29	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250	13.63 35.50 62.90	.00 .00 .10 .34 .70 1.34 2.34 4.67 10.14 18.57 48.38 85.72	100.00 100.00 99.90 99.66 99.30 98.66 97.66 95.33 89.86 81.43 51.62
120 170 200 230 PAN	3.0 3.5 3.75 4.0	.125 .090 .075 .063	71.43 72.18 72.22 72.78 73.33	97.34 98.36 98.42 99.18 99.93	2.66 1.64 1.58 .82 .07
PHI(50	: .53): 2.02): 2.90	PHI(PHI(16): 1.35 75): 2.36	PHI(2 PHI(8	5): 1.61 4): 2.48
SIEVE SKEWNE	LOSS(g) SS:	: .05 544		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm) : MEAN WA	.86		SORTING MEDIAN (mm) POINT METH	: .25
MEAN (METHOD PHI): 1 mm):			SORTING	.73
DATA F	ILE NAM	E: VC9637-1	.TAB		

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-37-2

SAMPLE ELEV. (FT. NGVD): -37.0 SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 55.27

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.53

7 -1.5 2.800 .30 .54 99 10 -1.0 2.000 .48 .87 99 14 -0.5 1.400 .68 1.23 98 18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	
5/16 -3.0 8.000 .00 .00 100 5 -2.0 4.000 .20 .36 99 7 -1.5 2.800 .30 .54 99 10 -1.0 2.000 .48 .87 99 14 -0.5 1.400 .68 1.23 98 18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	
5 -2.0 4.000 .20 .36 99 7 -1.5 2.800 .30 .54 99 10 -1.0 2.000 .48 .87 99 14 -0.5 1.400 .68 1.23 98 18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	
7 -1.5 2.800 .30 .54 99 10 -1.0 2.000 .48 .87 99 14 -0.5 1.400 .68 1.23 98 18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	.64
10 -1.0 2.000 .48 .87 99 14 -0.5 1.400 .68 1.23 98 18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	.46
18 0.0 1.000 1.00 1.81 98 25 0.5 .710 1.76 3.18 96	.13
25 0.5 .710 1.76 3.18 96	.77
	.19
	.82
	.71
	.44
	.79
	.33
•	.01
	.43
•	.41
230 4.0 .063 54.87 99.28 PAN 55.25 99.96	.72
PAN 55.25 99.96	.04
PHI(5): .72 PHI(16): 1.52 PHI(25): 1	
PHI(50): 2.06 PHI(75): 2.36 PHI(84): 2	.47
PHI(95): 2.87	
SIEVE LOSS(g): .02 SILT/CLAY: 1.	41%
	277
CDADUTO MEMUOD	
GRAPHIC METHOD MEAN (PHI): 1.93 SORTING:	.47
MEAN (PHI): 1.93 MEAN (mm): .26 MEDIAN (mm):	.24
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	. 24
TOTE: MEAN MAD CALCOLLIED OF THE STATE METHOD	
MOMENT METHOD	
MEAN (PHI): 1.95 SORTING:	.69
MEAN (mm): .26	

DATA FILE NAME: VC9637-2.TAB

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-39-1 SAMPLE ELEV. (FT. NGVD): -33.2

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.90

SAMPLE WEIGHT AFTER WASH (GRAMS): 57.95

SAMPLE	WEIGHT	AFTER	WASH	(GRAI	15):	5/.	95		
SIEVE SIZE	PHI SIZE	MESH (mm)		RETAI	(NED AMS)		INED %)		SED %)
5/8 5/16 5 7 10 14 18 25 35 45 60	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5	8 . 2 . 2 . 1	.000 .000 .000 .800 .000 .400 .000 .710 .500 .355 .250	14 33 52	.00 .00 .10 .17 .39 .93 1.67 3.40 7.90 4.45 3.86	1 2 5 13 24 57 88	.00 .00 .17 .29 .66 .58 .84 .77 .41 .53	10 9 9 9 9 9 9 8 7	0.00 0.00 9.83 9.71 9.34 98.42 7.16 94.23 86.59 75.47 12.51
120 170 200 230 PAN	3.0 3.5 3.75 4.0		.125 .090 .075 .063	51 51 58	7.50 7.87 7.90 3.39	98 98 99	.62 .25 .30 .13		2.38 1.75 1.70 .87 .07
PHI (50	: .37): 1.89): 2.85			16): : 75): :			PHI (2 PHI (8		
SIEVE SKEWNE	LOSS(g) SS:	42					/CLAY		1.70% 1.318
MEAN (C METHO PHI): 1 mm) : MEAN WA	.73 .30	ULATE:	D USII] NG 5	MEDIAN	RTING (mm) METH	:	.65 .27
MEAN (METHOD PHI): 1 mm):	.78				so	RTING	:	.76
DATA F	ILE NAM	E: VC9	639-1	.TAB					

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-39-2

SAMPLE ELEV. (FT. NGVD): -38.2

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 66.54

		AFTER WASH			
SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .03 .28 .63 1.13 2.11 4.13 9.13 16.58 38.45 59.38 64.98 65.40 65.43 65.97 66.49	1.70 3.17 6.21 13.72 24.92 57.78 89.24 97.66 98.29 98.33 99.14	100.00 100.00 99.95 99.58 99.05 98.30 96.83 93.79 86.28 75.08 42.22 10.76 2.34 1.71 1.67 .86
PHI(5) PHI(50	: .30): 1.88): 2.84		16): 1.10 75): 2.27	PHI(2	5): 1.50 4): 2.42
SIEVE :		.05 471		SILT/CLAY KURTOSIS	
MEAN (C METHON PHI): 1 mm): MEAN WA	.71 .31		SORTING MEDIAN (mm) POINT METH	: .27
MEAN (METHOD PHI): 1 mm):			SORTING	· .77

DATA FILE NAME: VC9639-2.TAB



EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA III 10/96 TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-13

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

PHI(5): -1.41 PHI(16):40 PHI(25): .1 PHI(50): 1.46 PHI(75): 2.29 PHI(84): 2.6 PHI(95): 3.75 SIEVE LOSS(g): .06 SILT/CLAY: 5.02	
5/16 -3.0 8.000 .00 .00 100.00 5 -2.0 4.000 1.89 1.89 98.1 7 -1.5 2.800 4.31 4.31 95.6 10 -1.0 2.000 7.99 7.99 92.0 14 -0.5 1.400 14.45 14.45 85.5 18 0.0 1.000 21.86 21.86 78.1 25 0.5 .710 31.79 31.79 68.2 35 1.0 .500 42.58 42.58 57.4 45 1.5 .355 50.65 50.65 49.3 60 2.0 .250 66.13 66.13 33.8 80 2.5 .180 81.35 81.35 18.6 120 3.0 .125 90.51 90.51 9.4 170 3.5 .090 94.32 94.32 5.6 200 3.75 .075 94.98 94.98 5.0 PAN 99.94 99.94 .0 PHI(5): -1.41 PHI(16):40 PHI(25): .1 PHI(50): 1.46 PHI(75): 2.29 PHI(84): 2.6 PHI(95): 3.75 SIEVE LOSS(g): .06 SILT/CLAY: 5.02	
45 1.5 .355 50.65 50.65 49.3 60 2.0 .250 66.13 66.13 33.8 80 2.5 .180 81.35 81.35 18.6 120 3.0 .125 90.51 90.51 9.4 170 3.5 .090 94.32 94.32 5.6 200 3.75 .075 94.98 94.98 5.0 230 4.0 .063 97.48 97.48 2.5 PAN 99.94 99.94 .0 PHI(5): -1.41 PHI(16):40 PHI(25): .1 PHI(50): 1.46 PHI(75): 2.29 PHI(84): 2.6 PHI(95): 3.75 SIEVE LOSS(g): .06 SILT/CLAY: 5.02	.00 .11 .69 .01 .55
PHI(50): 1.46 PHI(75): 2.29 PHI(84): 2.6 PHI(95): 3.75 SIEVE LOSS(g): .06 SILT/CLAY: 5.02	.35 .87 .65 .49 .68
	02% 991
GRAPHIC METHOD MEAN (PHI): 1.21 SORTING: 1.5 MEAN (mm): .43 MEDIAN (mm): .3 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	.52 .36
MOMENT METHOD MEAN (PHI): 1.14 SORTING: 1.4 MEAN (mm): .45	.44

DATA FILE NAME: VC96-13.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-15 SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5	-4.0 -3.0 -2.0 -1.5	16.000 8.000 4.000 2.800	.00 .00 .66	.00 .66 .94	100.00 100.00 99.34 99.06
10 14 18 25 35 45 60 80 120 170 200	-1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75	2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	1.37 2.30 3.42 5.71 10.33 16.65 32.41 55.97 86.08 95.30	2.30 3.42 5.71 10.33 16.65 32.41 55.97 86.08 95.30	98.63 97.70 96.58 94.29 89.67 83.35 67.59 44.03 13.92 4.70 4.17
230 PAN	4.0	.063	97.92 99.95	97.92	2.08
PHI (50)	.34): 2.37): 3.48		(16): 1.45 (75): 2.82		25): 1.76 84): 2.97
	Loss(g) s:	.05 605		SILT/CLA KURTOSI	Y: 4.17% S: 1.224
MEAN (I	C METHOPHI): 2 mm): MEAN WA	.12 .23	ED USING 5	SORTIN MEDIAN (mm 5 POINT MET): .19
MEAN (1	METHOD PHI): 2 mm) :	.22		SORTIN	G: .97
בים ענותענו	ארא שדד דר	F. WC06-15	מי עידו		

DATA FILE NAME: VC96-15.TAB

GRADATION ANALYSIS REPORT BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-16

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

5/16	SHITLE	WEIGHT	ATTEK WAOII	(GIGHID).	100.00	
5/16						
18	5/16 5 7 10	-3.0 -2.0 -1.5 -1.0	8.000 4.000 2.800 2.000	.00 1.87 3.13 5.02	.00 1.87 3.13 5.02	100.00 100.00 98.13 96.87 94.98
PHI(5): -1.01	18 25 35 45 60 80 120 170 200	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75	1.000 .710 .500 .355 .250 .180 .125 .090	12.85 19.85 29.91 38.57 54.10 74.57 91.37 95.46 95.92 97.92	12.85 19.85 29.91 38.57 54.10 74.57 91.37 95.46 95.92 97.92	87.15 80.15 70.09 61.43 45.90 25.43 8.63 4.54 4.08 2.08
SKEWNESS:508 KURTOSIS: 1.03 GRAPHIC METHOD MEAN (PHI): 1.46 SORTING: 1.2 MEAN (mm): .36 MEDIAN (mm): .2 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.53 SORTING: 1.3	PHI(5)): 1.87	PHI(PHI(16): .22	PHI(2	
MEAN (PHI): 1.46 SORTING: 1.2 MEAN (mm): .36 MEDIAN (mm): .2 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.53 SORTING: 1.3						
MEAN (PHI): 1.53 SORTING: 1.3	MEAN (1	PHI): 1 mm):	.46 .36		MEDIAN (mm)	: .27
	MEAN (PHI): 1			SORTING	: 1.32

DATA FILE NAME: VC96-16.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-48

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

5/16						
5/16						
PAN 99.94 99.94 .06 PHI(5): -1.32 PHI(16):21 PHI(25): .29 PHI(50): 1.16 PHI(75): 2.02 PHI(84): 2.49 PHI(95): 3.42 SIEVE LOSS(g): .06 SILT/CLAY: 4.249 SKEWNESS:086 KURTOSIS: 1.129 GRAPHIC METHOD MEAN (PHI): 1.10 SORTING: 1.33 MEAN (mm): .47 MEDIAN (mm): .49 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MOMENT METHOD MEAN (PHI): 1.06 SORTING: 1.33	5/16 5 7 10 14 18 25 35 45 60 80 120 170	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 2.32 3.96 6.86 11.98 18.80 29.52 45.66 58.82 74.64 85.12 92.89 95.38	.00 2.32 3.96 6.86 11.98 18.80 29.52 45.66 58.82 74.64 85.12 92.89 95.38	100.00 100.00 97.68 96.04 93.14 88.02 81.20 70.48 54.34 41.18 25.36 14.88 7.11 4.62 4.24
PHI(50): 1.16 PHI(75): 2.02 PHI(84): 2.49 PHI(95): 3.42 SIEVE LOSS(g): .06 SILT/CLAY: 4.249 SKEWNESS:086 KURTOSIS: 1.129 GRAPHIC METHOD MEAN (PHI): 1.10 SORTING: 1.33 MEAN (mm): .47 MEDIAN (mm): .49 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.06 SORTING: 1.33	230		.063			2.11
SKEWNESS:086 KURTOSIS: 1.125 GRAPHIC METHOD MEAN (PHI): 1.10 SORTING: 1.33 MEAN (mm): .47 MEDIAN (mm): .45 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.06 SORTING: 1.35	PHI (50)	: 1.16				
MEAN (PHI): 1.10 SORTING: 1.33 MEAN (mm): .47 MEDIAN (mm): .49 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.06 SORTING: 1.33		,				
MEAN (PHI): 1.06 SORTING: 1.3	MEAN (I MEAN (I	PHI): 1 nm):	.10 .47		MEDIAN (mm)	.45
	MEAN (F	PHI): 1	.06		SORTING	G: 1.32

DATA FILE NAME: VC96-48.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-49

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)			
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .99 2.28 3.83 7.18 12.54 20.73 31.37 40.29 55.97 73.94 89.54 94.46 95.40 97.73	.00 .00 .99 2.28 3.83 7.18 12.54 20.73 31.37 40.29 55.97 73.94 89.54 94.46 95.40 97.73	100.00 100.00 99.01 97.72 96.17 92.82 87.46 79.27 68.63 59.71 44.03 26.06 10.46 5.54 4.60 2.27			
PAN			99.91	99.91	.09			
PHI(5): PHI(50) PHI(95)	: 1.81		(16): .21 (75): 2.53	•): .70): 2.82			
SIEVE I		.09 307		SILT/CLAY: KURTOSIS:	4.60% .999			
GRAPHIC METHOD MEAN (PHI): 1.53 SORTING: 1.31 MEAN (mm): .35 MEDIAN (mm): .29 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD								
MEAN (F								

DATA FILE NAME: VC96-49.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-50

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

Omit Di	""		. (514415)		
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8	-4.0 -3.0	16.000	.00	.00 .00	100.00
5/16	-2.0	4.000	3.48	3.48	
5 7	-1.5	2.800	6.36	6.36	96.52 93.64
10	-1.0	2.000	9.74	9.74	90.26
14	- 0.5	1.400	16.06	16.06	83.94
18	0.0	1.000	24.92	24.92	75.08
25	0.5	.710	39.55		60.45
35	1.0	.500	60.48		39.52
45	1.5	.355	73.46		26.54
60	2.0	.250	83.22		16.78
80	2.5	.180	87.74		12.26
120	3.0	.125	91.03		8.97
170	3.5	.090	92.69		7.31
200	3.75	.075	93.27		6.73
230	4.0	.063	96.67		3.33
PAN			99.93		.07
DUT (E)		TUT	(16) - 50	DUT /	5.
	: -1.74		(16):50 (75): 1.58		25): .00 34): 2.09
): .75): 3.88	PUI	(75): 1.56	Pni(8	34): 2.09
STEVE	LOSS(g)	: .07		SILT/CLAY	7: 6.73%
SKEWNE		.248		KURTOSIS	
GRAPHI	C METHO	D			
	PHI):			SORTING	3: 1.30
	mm):			MEDIAN (mm)	
				POINT METH	
MOMENT	METHOD				
		.70		SORTING	3: 1.36
	•	.62		DOMITING	. 1.50
rineri (.		· • • • • • • • • • • • • • • • • • • •			

DATA FILE NAME: VC96-50.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997 _____

SAMPLE NO.: VC96-51

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .00 3.24 5.81 9.29 15.85 24.03 36.61 51.61 62.47	.00 .00 3.24 5.81 9.29 15.85 24.03 36.61 51.61 62.47	100.00 100.00 96.76 94.19 90.71 84.15 75.97 63.39 48.39 37.53
60 80 120 170 200 230 PAN	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075 .063	78.45 90.31 95.28 96.42 96.69 98.32 99.92	78.45 90.31 95.28 96.42	21.55 9.69 4.72 3.58 3.31 1.68 .08
PHI (50)	-1.66): .95): 2.97		(16):49 (75): 1.89		5): .04
SIEVE I	LOSS(g) SS:	.08 212		SILT/CLAY: KURTOSIS:	
MEAN (1	,	.80 .57		SORTING: MEDIAN (mm): POINT METHO	.52
MEAN (METHOD PHI): mm):	.85 .56		SORTING	1.35

DATA FILE NAME: VC96-51.TAB

INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

.

SAMPLE NO.: VC96-13-1

SAMPLE ELEV. (FT. NGVD): -74.5

SAMPLE DEPTH (FT.): -0.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 67.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 60.86

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .41 .52 .82 1.23 2.02 3.89 7.66 12.11 21.57 34.01 50.85 59.36 60.56 63.83 66.99		100.00 100.00 99.39 99.22 98.78 98.17 96.99 94.20 88.57 81.94 67.83 49.27 24.15 11.46 9.67 4.79
	.36 : 2.48 : 3.99		(16): 1.34 (75): 2.98		5): 1.75 1): 3.32
SIEVE I	Loss(g)	: .05 311		SILT/CLAY: KURTOSIS:	
MEAN (1	C METHOPHI): 2 nm): MEAN WA	.30 .20		SORTING MEDIAN (mm) POINT METHO	.18
MEAN (1	METHOD PHI): 2 nm):			SORTING	: 1.04

DATA FILE NAME: VC9613-1.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-13-2

SAMPLE ELEV. (FT. NGVD): -77.8

SAMPLE DEPTH (FT.): -3.8 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.43
SAMPLE WEIGHT AFTER WASH (GRAMS): 77.99

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .00 1.83 5.70 10.74 19.00 29.33 43.16 55.91 62.97 70.45 74.84 76.97 77.77	.00 .00 2.28 7.09 13.35 23.62 36.47 53.66 69.51 78.29 87.59 93.05 95.70 96.69 96.89	100.00 100.00 97.72 92.91 86.65 76.38 63.53 46.34 30.49 21.71 12.41 6.95 4.30 3.31 3.11
230 PAN	4.0	.063	79.17 80.40	98.43 99.96	1.57 .04
PHI (50)	: -1.72): .39): 2.87		(16):87 (75): 1.31	PHI (2 PHI (8	5):45 4): 1.81
SIEVE I	Loss(g)	.03 .136		SILT/CLAY KURTOSIS	
MEAN (I		.50 .71		SORTING MEDIAN (mm) POINT METH	: .76
MEAN (METHOD PHI): nm):	.41 .75	· · · · · · · · · · · · · · · · · · ·	SORTING	: 1.30
DATA F	ILE NAM	E: VC9613-2	2.TAB		

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-13-3

SAMPLE ELEV. (FT. NGVD): -82.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 86.63

SAMPLE WEIGHT AFTER WASH (GRAMS): 82.55

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 1.77 2.70 4.94 9.49 13.65 18.86 25.91 32.82 51.71 71.63 79.28	.00 .00 2.04 3.12 5.70 10.95 15.76 21.77 29.91 37.89 59.69 82.68 91.52	100.00 100.00 97.96 96.88 94.30 89.05 84.24 78.23 70.09 62.11 40.31 17.32 8.48
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	81.79 82.35 84.47 86.56	94.41 95.06 97.51 99.92	5.59 4.94 2.49 .08
, ,	: -1.14): 1.78): 3.73		16): .02 75): 2.33		5): .70 1): 2.57
SIEVE I	Loss(g)	: .07 378		SILT/CLAY: KURTOSIS:	
MEAN (I	C METHOPHI): 1 nm): MEAN WA	.39 .38		SORTING: MEDIAN (mm): POINT METHO	.29
MEAN (METHOD PHI): 1 nm):			SORTING	1.33

DATA FILE NAME: VC9613-3.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-15-1

SAMPLE ELEV. (FT. NGVD): -67.0 SAMPLE DEPTH (FT.): -1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 78.22

SAMPLE WEIGHT AFTER WASH (GRAMS): 75.77

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED :	PASSED (%)
5/8 5/16 5 7 10 14 18	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000	.00 .00 .11 .32 .62 1.31 2.32	.00 .00 .14 .41 .79 1.67 2.97	100.00 100.00 99.86 99.59 99.21 98.33 97.03
25 35 45 60 80 120 170 200 230 PAN	0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.710 .500 .355 .250 .180 .125 .090 .075	4.28 7.73 12.03 21.98 38.11 65.56 75.16 75.63 76.93 78.18	5.47 9.88 15.38 28.10 48.72 83.81 96.09 96.69 98.36 99.95	94.53 90.12 84.62 71.90 51.28 16.19 3.91 3.31 1.64
PHI(5): PHI(50) PHI(95)	: 2.52		(16): 1.52 (75): 2.87): 1.88): 3.01
SIEVE I		: .04 792		SILT/CLAY: KURTOSIS:	
MEAN (n	PHI): 2 m):	.18 .22		SORTING: MEDIAN (mm): POINT METHO	.17
	METHOD PHI): 2			sorting:	.92

DATA FILE NAME: VC9615-1.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-15-2

SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 62.76

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.57

SAMPLE	WEIGHT	AFIER WASH	(GRAMS):	59.57	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.81	1.29	98.71
7	-1.5 -1.0	2.800 2.000	.99 1.30	1.58 2.07	98.42
10 14	-0.5	1.400	1.92	3.06	97.93 96.94
18	0.0	1.000	2.49	3.97	96.03
25	0.5	.710	3.77	6.01	93.99
35	1.0	.500	6.82	10.87	89.13
45	1.5	.355	11.42	18.20	81.80
60	2.0	.250	23.64	37.67	62.33
80	2.5	.180	40.69	64.83	35.17
120	3.0	.125	55.76	88.85	11.15
170	3.5	.090	59.20	94.33	5.67
200	3.75				5.23
230 PAN	4.0	.063	61.11 62.73		2.62 .05
PAN			02.73	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.05
	: .25	PHI(16): 1.35	PHI(2	5): 1.67
): 2.23	PHI (75): 2.71	PHI(8	4): 2.90
PHI (95): 3.77				
STEVE	LOSS(a)	: .03		SILT/CLAY	5.23%
SKEWNE		277	-	KURTOSIS	
	C METHO				
	PHI): 2		-	SORTING	
	mm) :			MEDIAN (mm) POINT METH	
NOTE:	MEAN WA		D OBING D	POINT METH	
MOMENT	METHOD				
MEAN (PHI): 2	.04		SORTING	: 1.02
MEAN (mm):	.24			

DATA FILE NAME: VC9615-2.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-16-1

SAMPLE ELEV. (FT. NGVD): -73.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 82.36

SAMPLE WEIGHT AFTER WASH (GRAMS): 79.82

SAMPLE	WEIGHT	AFTER	WASH	(GRAMS):	79.8	32		
SIEVE SIZE	PHI SIZE	MESH S (mm)		RETAINED (GRAMS)	RETAI		PASS %)	
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	8. 4. 2. 1. 1.	000 000 000 800 000 400 000 710 500 355 250 180	.00 .96 1.72 2.80 5.71 9.71 16.68 26.92 35.68 49.98 65.82 76.86	1. 2. 3. 6. 11. 20. 32. 43. 60. 79. 93.	. 25 . 69 . 32 . 68 . 92 . 32	100 98 97 96 93 88 79 67 56 39 20	.00 .00 .83 .91 .60 .21 .75 .31 .68 .32 .68
200 230 PAN	3.75 4.0		.075 .063	79.70 81.00 82.28	98.	.77 .35 .90		.23 .65
PHI(5) PHI(50 PHI(95				16): .25 75): 2.37		PHI(25 PHI(84		
SIEVE :	LOSS(g) SS:	: .08 374				/CLAY: rosis:		23% 983
MEAN (1	C METHO PHI): 1 mm): MEAN WA	.42 .37	JLATE	D USING 5	MEDIAN			.20
MEAN (METHOD PHI): 1 mm):	.45			SOI	RTING:	1	21

DATA FILE NAME: VC9616-1.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-16-2

SAMPLE ELEV. (FT. NGVD): -76.5

SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.19

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.16

DWII DD	***************************************				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	.00 .00 1.89 2.96 4.59 7.37 10.83 16.04 23.18 29.20	.00 .00 2.90 4.54 7.04 11.31 16.61 24.61 35.56 44.79	100.00 100.00 97.10 95.46 92.96 88.69 83.39 75.39 64.44 55.21
60 80 120 170 200 230 PAN	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075 .063	39.85 53.13 61.26 62.89 63.06 64.08 65.12	61.13 81.50 93.97 96.47 96.73 98.30 99.89	38.87 18.50 6.03 3.53 3.27 1.70
PHI (50	: -1.41): 1.66): 3.21	PHI (16):06 75): 2.34	PHI (25 PHI (84	5): .52 4): 2.60
SIEVE SKEWNE	LOSS(g) SS:	: .07 572		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm): MEAN WA	.20 .44		SORTING MEDIAN (mm) POINT METHO	: .32
MEAN (METHOD PHI): 1 mm):	.30		SORTING	: 1.37

DATA FILE NAME: VC9616-2.TAB

BROWARD CO. VIBRACORES BA III 9/96

TESTED BY: MA ON: 9/96

SAMPLE NO.: VC96-16-3

SAMPLE ELEV. (FT. NGVD): -82.0

SAMPLE DEPTH (FT.): -9.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 62.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.10

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0		.00 .00 .44 1.00 1.87 2.99 4.30 6.48 10.00 13.36 20.78 34.44 52.27 57.24 57.93 59.98	96.74	100.00 100.00 99.29 98.39 96.98 95.18 93.06 89.55 83.87 78.45 66.48 44.45 15.69 7.68 6.56 3.26
	:46): 2.37): 3.87	PHI	61.96 (16): .99 (75): 2.84	PHI(2	.06 5): 1.64 4): 2.99
SIEVE :	LOSS(g) SS:	: .04 667		SILT/CLAY KURTOSIS	
MEAN (1	,	.95 .26		SORTING MEDIAN (mm) POINT METH	: .19
MEAN (METHOD PHI): 2 mm) :			SORTING	: 1.18
DATA F	ILE NAM	E: VC9616-	3.TAB		

DATA FILE NAME: VC9616-3.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-48-1

SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 64.18
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.52

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	61.52	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 1.33 2.42 4.32 7.77 12.25 19.06 29.19 37.51 47.57 54.41 59.47 61.14 61.40 62.80	.00 .00 2.07 3.77 6.73 12.11 19.09 29.70 45.48 58.44 74.12 84.78 92.66 95.26 95.67 97.85	100.00 100.00 97.93 96.23 93.27 87.89 80.91 70.30 54.52 41.56 25.88 15.22 7.34 4.74 4.33 2.15
PHI (50	 : -1.29): 1.17): 3.45		64.15 16):22 75): 2.04		.05 5): .28 4): 2.46
SIEVE SKEWNE	LOSS(g)	: .03 071		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm): MEAN WA	.11		SORTING MEDIAN (mm) POINT METH	: .44
MEAN (METHOD PHI): 1 mm) :	.07	·	SORTING	: 1.32

DATA FILE NAME: VC9648-1.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-48-2

SAMPLE ELEV. (FT. NGVD): -76.0

SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 62.56

SAMPLE WEIGHT AFTER WASH (GRAMS): 60.11

	***********	*** ***********************************	(014115).	00.11	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10	-4.0 -3.0 -2.0 -1.5 -1.0	16.000 8.000 4.000 2.800 2.000	.00 .00 1.71 2.68 4.42 7.36	.00 .00 2.73 4.28 7.07 11.76	100.00 100.00 97.27 95.72 92.93 88.24
18 25 35 45 60 80 120 170 200 230 PAN	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	1.000 .710 .500 .355 .250 .180 .125	11.46 18.28 28.76 37.19 47.23 53.61 58.35 59.79 60.01 61.28 62.51	18.32 29.22 45.97 59.45 75.50 85.69 93.27 95.57 95.92 97.95	81.68 70.78 54.03 40.55 24.50 14.31 6.73 4.43 4.08 2.05
PHI(5) PHI(50	: -1.37): 1.15): 3.38		16):18 75): 1.98	PHI(2	5): .31
SIEVE :	LOSS(g) SS:	: .05 114		SILT/CLAY KURTOSIS	
MEAN (1	C METHO: PHI): 1 mm): MEAN WA	.08 .47		SORTING MEDIAN (mm) POINT METH	: .45
MEAN (METHOD PHI): 1 mm):			SORTING	: 1.32
יום אותוא ביי	TTT 137 11/17	D. TICOE/10	מל ארות		

DATA FILE NAME: VC9648-2.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-49-1

SAMPLE ELEV. (FT. NGVD): -72.5 SAMPLE DEPTH (FT.): -2.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 74.18

SAMPLE WEIGHT AFTER WASH (GRAMS): 70.42

SAMPLE	WEIGHT	AFTER	WASH	(GRAMS):	70.42	
SIEVE SIZE	PHI SIZE	MESH (mm)		RETAINED (GRAMS)	RETAINE	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	8 . 2 . 2 . 1 . 1	.000 .000 .000 .800 .000 .400 .710 .500 .355 .250 .125 .090	.00 .00 .76 1.58 2.68 5.05 8.90 14.68 21.87 28.00 38.73 51.63 64.65 69.23 70.13 72.20	.00 .00 1.02 2.13 3.61 6.81 12.00 19.79 29.48 37.75 52.21 69.60 87.15 93.33 94.54 97.33	12.85 6.67 5.46
PAN	~~ ~~ ~~ ~~ ~~ ~~			74.12	99.92 	.08
PHI(5) PHI(50 PHI(95				16): .26 75): 2.65		(25): .77 (84): 2.91
SIEVE SKEWNE	LOSS(g) SS:	: .0 31			SILT/CL KURTOS	
MEAN (C METHO PHI): 1 mm): MEAN WA	.62 .33	ULATE	D USING 5	SORTI MEDIAN (m POINT ME	m): .26
MEAN (METHOD PHI): 1 mm):	.62			SORTI	NG: 1.31

DATA FILE NAME: VC9649-1.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-49-2

SAMPLE ELEV. (FT. NGVD): -77.5

SAMPLE DEPTH (FT.): -7.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 66.40

SAMPLE WEIGHT AFTER WASH (GRAMS): 64.52

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 1.5 2.0 2.5 3.0 3.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	.00 .62 1.70 2.80 5.22 8.97 14.89 23.11 29.81 41.69 54.33 62.33		100.00 100.00 99.07 97.44 95.78 92.14 86.49 77.58 65.20 55.11 37.21 18.18 6.13
200 230 PAN	3.75 4.0	.075 .063	64.38 65.38 66.33		3.04 1.54 .11
PHI (50)	89): 1.64): 3.21		(16): .14 (75): 2.32		5): .60 4): 2.59
SIEVE I		: .07 393		SILT/CLAY KURTOSIS	
MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.34		SORTING MEDIAN (mm) POINT METH	: .32
MEAN (METHOD PHI): 1 mm) :			SORTING	: 1.23
	31336	T. TTOOCAO			

DATA FILE NAME: VC9649-2.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-49-3

SAMPLE ELEV. (FT. NGVD): -82.0

SAMPLE DEPTH (FT.): -12.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 66.35

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.81

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10	-4.0 -3.0 -2.0 -1.5 -1.0	16.000 8.000 4.000 2.800 2.000 1.400	.00 .00 1.66 2.79 4.53 7.40	.00 .00 2.50 4.20 6.83 11.15	100.00 100.00 97.50 95.80 93.17 88.85
18 25 35 45 60 80 120 170 200 230 PAN	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	1.000 .710 .500 .355 .250 .180 .125 .090 .075	11.84 18.89 27.78 34.51 44.57 54.35 61.15 63.19 63.63 64.97 66.28	17.84 28.47 41.87 52.01 67.17 81.91 92.16 95.24 95.90 97.92 99.89	82.16 71.53 58.13 47.99 32.83 18.09 7.84 4.76 4.10 2.08
PHI(5): PHI(50) PHI(95)	: 1.40		(16):14 (75): 2.27	•	5): .34 4): 2.60
SIEVE I		: .07 251		SILT/CLAY KURTOSIS	
MEAN (m	HI): 1	.20 .44		SORTING MEDIAN (mm) POINT METHO	: .38
,	HI): 1			SORTING	: 1.37

DATA FILE NAME: VC9649-3.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-50-1

SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 74.84

SAMPLE WEIGHT AFTER WASH (GRAMS): 72.31

SAMPLE	WEIGHT	MI IIII	(Cidilib).	,2,5	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	.250 .180 .125 .090	.00 .00 3.81 6.78 9.65 14.83 22.29 34.00 49.97 59.61 66.50 69.43 71.37 72.08		100.00 100.00 94.91 90.94 87.11 80.18 70.22 54.57 33.23 20.35 11.14 7.23 4.64 3.69
200 230 PAN	3.75 4.0		72.22 .73.53 74.80		3.50 1.76 .05
PHI (50	: -2.02): .61): 2.93	PHI(16):78 75): 1.32		5):24 4): 1.74
SIEVE SKEWNE	LOSS(g) SS:	: .04		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): mm): MEAN WA	.50 .71		SORTING MEDIAN (mm) POINT METH	: .66
MEAN (METHOD PHI): mm):	.47		SORTING	: 1.32
	TT T 373 36	T - T700 CEO 1	CD 3 D		

DATA FILE NAME: VC9650-1.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-50-2

SAMPLE ELEV. (FT. NGVD): -75.5 SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW-SM

DRY SAMPLE WEIGHT (GRAMS): 69.87

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.53

DAM DD	METOLIT				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 3.75	.090 .075	.00 .80 1.74 3.62 7.35 12.34 21.47 35.79 45.04 52.46 56.27 59.30 61.17 61.97	88.69	100.00 100.00 98.86 97.51 94.82 89.48 82.34 69.27 48.78 35.54 24.92 19.46 15.13 12.45 11.31
230 PAN	4.0	.063	65.98 69.81	94.43 99.91	5.57 .09
PHI (50	: -1.03): .97): 4.02		(16):12 (75): 2.00		5): .28 4): 2.90
SIEVE SKEWNE	LOSS(g) SS:	: .06 .348		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm): MEAN WA	.35		SORTING MEDIAN (mm) POINT METH	: .51
MEAN (METHOD PHI): 1 mm):	.05		SORTING	: 1.35

DATA FILE NAME: VC9650-2.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

.

SAMPLE NO.: VC96-50-3

SAMPLE ELEV. (FT. NGVD): -80.0

SAMPLE DEPTH (FT.): -9.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW-SM

DRY SAMPLE WEIGHT (GRAMS): 69.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.86

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAIN		INED I	PASSED (%)
5/8 5/16 5 7 10 14 18 25	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000	2. 3. 6. 11. 18.	00 43 3 99 5 60 9 62 16 73 27	.00 .00 .52 .78 .56 .83 .13	100.00 100.00 96.48 94.22 90.44 83.17 72.87 57.39
35 45 60 80 120 170 200 230 PAN	1.0 1.5 2.0 2.5 3.0 3.5 3.75 4.0	.710 .500 .355 .250 .180 .125 .090 .075	42. 50. 56. 59. 61. 63.	68 61 66 73 92 82 76 86 72 89 01 91 58 92 33 96	.82 .38 .44 .56 .40 .27 .09	38.18 26.62 17.56 13.44 10.60 8.73 7.91 3.93
PHI(5): PHI(50) PHI(95)	: .69		(16): (75): 1.):10): 2.19
SIEVE I		: .06 .319			/CLAY:	
MEAN (n	PHI):	D .92 .53 S CALCULAT	TED USING	MEDIAN		1.37 .62
•	PHI):	.67 .63		so	RTING:	1.39

DATA FILE NAME: VC9650-3.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-51-1

SAMPLE ELEV. (FT. NGVD): -75.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 72.66

SAMPLE WEIGHT AFTER WASH (GRAMS): 70.86

DWILTE	WEIGHT	ALIEN MADE	(GIGHIS).	70.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00		100.00
5/16	-3.0	8.000	.00		100.00
5	-2.0	4.000	2.23		96.93
7	-1.5	2.800	4.06		94.41
10	-1.0	2.000	6.80		90.64
14	-0.5	1.400	11.68		83.93
18	0.0	1.000	18.48		74.57
25	0.5	.710	29.54		59.34
35	1.0	.500	42.35		41.71
45	1.5		50.77		30.13
60	2.0	.250	60.98		16.07
80	2.5		67.49		7.12
120	3.0		70.07		3.56
170	3.5	.090	70.65		2.77
200	3.75		70.77		2.60
230	4.0	.063	71.69		1.33
PAN			72.61	99.93	.07
DHT (5)	: -1.62) тнт	16):51	PHI(25	:/ - 03
): .77		75): 1.68		:): 2.00
): 2.80		75). 1.00	FIIT (04	:). 2.00
STEVE	LOSS (g)	: .05		SILT/CLAY:	2 60%
SKEWNE		139		KURTOSIS:	
DILLINIT					1.001
GRAPHI	C METHO	D			
MEAN (PHI):	.69		SORTING:	1.25
•	•	.62		MEDIAN (mm):	
				POINT METHO	
	METHOD				
•	•	.71		SORTING:	1.28
MEAN (1	mm) :	.61			
		_~			

DATA FILE NAME: VC9651-1.TAB

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-51-2

SAMPLE ELEV. (FT. NGVD): -80.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.84

SAMPLE WEIGHT AFTER WASH (GRAMS): 73.89

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	2.61	3.40	96.60
7	-1.5	2.800	4.63	6.03	93.97
10	-1.0	2.000	7.08	9.21	90.79
14	-0.5	1.400	12.01	15.63	84.37
18	0.0	1.000	17.39	22.63	77.37
25	0.5	.710	25.01	32.55	67.45
35	1.0	.500	34.52	44.92	55.08
45	1.5	.355	42.31	55.06	44.94
60	2.0	.250	56.06		27.04
.80	2.5	.180	67.42	87.74	12.26
120	3.0	.125	72.32		5.88
170	3.5	.090	73.47		4.39
200	3.75	.075	73.74		4.03
230	4.0	.063	75.28		2.04
PAN			76.77	99.91	.09
DHT (5)	: -1.70	рнт (16):47		5): .12
): 1.25		75): 2.07	•	1): 2.37
•): 3.29	1111	,,,,, 2.0,	1111(0	2,5
			·		
	LOSS (g)			SILT/CLAY:	
SKEWNE	SS:	316		KURTOSIS	1.049
CDADUT	C METHO				
		•95		SORTING:	1.42
•	•	• 52		MEDIAN (mm):	
				POINT METHO	
NOIE.	MEAN WA		D OSING S	POINT MEINC	
MOMENT	METHOD		•		
		.99	•	SORTING:	1.41
•	•	.50	r		
מים אים אים	TT.E. NAM	E: VC9651-2	אַניים (

DATA FILE NAME: VC9651-2.TAB



EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-19

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.40	.40	99.60
7	-1.5	2.800	.95	.95	99.05
10	-1.0	2.000	1.95	1.95	98.05
14	-0.5	1.400	3.70	3.70	96.30
18	0.0	1.000	6.26		93.74
25	0.5	.710	10.35		89.65
35	1.0	.500	17.40		82.60
45	1.5	.355	26.99		73.01
60	2.0	.250	54.92		45.08
80	2.5	.180	84.39		15.61
120	3.0	.125	95.01		4.99
170	3.5	.090	96.91		3.09
200	3.75	.075	97.19		2.81
230	4.0	.063	98.55		1.45
PAN			99.90	99.90	.10
	25	PHI	(16): .90	PHI(25	5): 1.40
PHI (50)	: 1.91	PHI	(75): 2.34		1): 2.49
PHI (95)	: 3.00				•
SIEVE I	LOSS(q)	: .10		SILT/CLAY:	2.81%
	ss:			KURTOSIS	
GRAPHIC	METHO:	D			
	PHI): 1			SORTING	.80
•	nm) :		,	MEDIAN (mm)	·
				POINT METHO	
MOMENTO	METHOD				
	METHOD PHI): 1	72		SORTING	• 07
	nm) :			DOKIING	.97
MEWN (1					
בים גשגם	TTE NINM	F. 17006-10	m v D		

DATA FILE NAME: VC96-19.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-52

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	WEIGHT	AFTER	WASH	(GRAMS)) :	100.0	30		
SIEVE SIZE	PHI SIZE	MESH S		RETAINI (GRAM		RETA:	INED %)		SSED (%)
5/8	-4.0 -3.0		000	. (00		.00		00.00
5/16 5	-2.0		.000	1.			.02		
5 7	-1.5		800	1.			.74		98.98 98.26
10	-1.0		.000	2.9			.90		97.10
14	-0.5		400	5.0			.04		94.96
18	0.0		.000	7.			.74		92.26
25	0.5		710	12.			.48		87.52
35	1.0		500	29.			.29		70.71
45	1.5		355	55.			.49		44.51
60	2.0		250	81.			.90		18.10
80	2.5		180	94.			.05	•	5.95
120	3.0		125	97.			.02		2.98
170	3.5		090	97.			.56		2.44
200	3.75		075	97.			.75		2.25
230	4.0		.063	98.			.86		1.14
PAN				99.			.91		.09
PHI(5) PHI(50	:51): 1.40			16): . 75): 1.					.87 2.09
	2.66		•	•			•	•	
	LOSS(g)						/CLA		2.25%
SKEWNE	ss:	43	2			KUR	TOSIS	3:	1.303
GRAPHI	C METHO								
	PHI): 1						RTING		.74
•	mm):					EDIAN	, ,		.38
NOTE: 1	MEAN WA	S CALC	JLATE	D USING	5 	POINT	METH	HOD	
MOMENT	METHOD					-			
•	PHI): 1					SO	RTING	}:	.94
MEAN (1	mm):	.41							

DATA FILE NAME: VC96-52.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-53 SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .34 .63 .98 1.87 3.58 8.38 20.45 33.58 57.85 87.84	.00 .34 .63 .98 1.87 3.58 8.38 20.45 33.58 57.85	100.00 100.00 99.66 99.37 99.02 98.13 96.42 91.62 79.55 66.42 42.15 12.16 2.72
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	97.95 98.03 98.85 99.69	97.95 98.03 98.85	2.05 1.97 1.15
PHI(5): PHI(50) PHI(95)	: 1.84		(16): .82 (75): 2.29): 1.17): 2.44
SIEVE I		: .31 401		SILT/CLAY: KURTOSIS:	
	PHI): 1 nm):	.62 .32		SORTING: MEDIAN (mm): POINT METHO	.28
MOMENT MEAN (I MEAN (I	PHI): 1			SORTING:	.86

DATA FILE NAME: VC96-53.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-54

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

OMMEDIA	WEIGHI	ALTEK WADII	(GIGHID).	100.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16	-4.0 -3.0	16.000 8.000	.00	.00	100.00
5	-2.0	4.000	.21	.21	99.79
7	-1.5	2.800	.63	.63	99.37
10	-1.0	2.000	1.55	1.55	98.45
14	-0.5	1.400	3.67	3.67	96.33
18	0.0	1.000	7.04	7.04	92.96
25	0.5	.710	12.26	12.26	87.74
35	1.0	.500	19.60	19.60	80.40
45	1.5	.355	27.63		72.37
60	2.0	.250	48.27		51.73
80 120	2.5	.180 .125	76.48 94.58	76.48 94.58	23.52
170	3.5	.090	97.25	97.25	5.42 2.75
200	3.75	.075	97.49		2.73
230	4.0	.063	98.71		1.29
PAN			99.89		.11
PHI(5)	:30	PHI(16): .75	PHI (2	25): 1.34
PHI (50 PHI (95): 2.03): 3.08	PHI (75): 2.47	PHI(8	34): 2.71
SIEVE :	SS: LOSS(g)	: .11 658		SILT/CLAY KURTOSIS	
MEAN (C METHO: PHI): 1	.65		SORTING	
	mm) : MEAN WA	.32 S CALCULATE		MEDIAN (mm) POINT METH	
	METHOD				
	•	.78 .29		SORTING	3: 1.02

DATA FILE NAME: VC96-54.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-55

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .00 .43 .87 1.62 3.06 5.36 10.67 20.10 28.47 46.92 82.56 96.68 97.63 97.74 98.84 99.94	.00 .00 .43 .87 1.62 3.06 5.36 10.67 20.10 28.47 46.92 82.56 96.68 97.63 97.74 98.84 99.94	100.00 100.00 99.57 99.13 98.38 96.94 94.64 89.33 79.90 71.53 53.08 17.44 3.32 2.37 2.26 1.16
PHI (5): 1.29 4): 2.55
: .06 692		SILT/CLAY KURTOSIS	
.65 .32			: .24
.76		SORTING	.97
	AFTER WASH MESH SIZE (mm) 16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063 PHI(PHI(AFTER WASH (GRAMS): MESH SIZE RETAINED (mm) (GRAMS) 16.000 .00 8.000 .00 4.000 .43 2.800 .87 2.000 1.62 1.400 3.06 1.000 5.36 .710 10.67 .500 20.10 .355 28.47 .250 46.92 .180 82.56 .125 96.68 .090 97.63 .075 97.74 .063 98.84 99.94 PHI(16): .78 PHI(75): 2.39 PHI(16): .78 PHI(75): 2.39	MESH SIZE RETAINED RETAINED (mm) (GRAMS) (%) 16.000 .00 .00 8.000 .00 .00 4.000 .43 .43 2.800 .87 .87 2.000 1.62 1.62 1.400 3.06 3.06 1.000 5.36 5.36 .710 10.67 10.67 .500 20.10 20.10 .355 28.47 28.47 .250 46.92 46.92 .180 82.56 82.56 .125 96.68 96.68 .090 97.63 97.63 .075 97.74 97.74 .063 98.84 98.84 99.94 99.94 PHI(16): .78 PHI(2 PHI(75): 2.39 PHI(8 **Comparison of the comparison of

DATA FILE NAME: VC96-55.TAB

INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA IV 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-19-1

SAMPLE ELEV. (FT. NGVD): -51.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 52.79

SAMPLE WEIGHT AFTER WASH (GRAMS): 51.24

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .00 .14 .38 .75 1.43 2.44 4.14 7.28 12.05 27.08 43.68 49.82 50.94 51.13 51.93	.00 .00 .27 .72 1.42 2.71 4.62 7.84 13.79 22.83 51.30 82.74 94.37 96.50 96.86 98.38	100.00 100.00 99.73 99.28 98.58 97.29 95.38 92.16 86.21 77.17 48.70 17.26 5.63 3.50 3.14 1.62
PAN			52.73	99.89	.11
PHI(5): PHI(50) PHI(95)			(16): 1.12 (75): 2.38		5): 1.54 1): 2.55
SIEVE I	LOSS(g)	: .06 523		SILT/CLAY	
MEAN (I	C METHOPHI): 1 nm): MEAN WA	.77 .29		SORTING MEDIAN (mm) POINT METHO	. 25
MEAN (1	•	.82 .28		SORTING	.90

DATA FILE NAME: VC9619-1, TAB

BROWARD CO. VIBRACORES BA IV 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-19-2

SAMPLE ELEV. (FT. NGVD): -56.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.23

		AFTER WASH		52.10	
SIEVE SIZE		MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.75 4.0	.090	.00 .00 .33 .70 1.51 2.85 4.79 7.73 12.46 18.06 32.44 46.38 51.14 51.94 52.02 52.61 53.18	1.32 2.84 5.35 9.00 14.52 23.41 33.93 60.94 87.13 96.07 97.58 97.73 98.83	100.00 100.00 99.38 98.68 97.16 94.65 91.00 85.48 76.59 66.07 39.06 12.87 3.93 2.42 2.27 1.17
PHI (50)	:57): 1.80): 2.94	PHI(16): .58 75): 2.27	PHI (2 PHI (8	5): 1.08 4): 2.44
SIEVE I		.05 660		SILT/CLAY KURTOSIS	
MEAN (1 MEAN (1	C METHOPHI): 1 mm): MEAN WA	. 44		SORTING MEDIAN (mm) POINT METH	: .29
MEAN (METHOD PHI): 1 mm) :			SORTING	: 1.05

DATA FILE NAME: VC9619-2.TAB

BROWARD CO. VIBRACORES BA IV 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-19-3

SAMPLE ELEV. (FT. NGVD): -61.0

SAMPLE DEPTH (FT.): -11.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.32

SAMPLE WEIGHT AFTER WASH (GRAMS): 56.67

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00		100.00
5	-2.0	4.000	.42		99.28
7	-1.5	2.800	.69		98.82
10	-1.0	2.000	1.56		97.33
14	-0.5	1.400	3.33		94.29
18	0.0	1.000	5.22		91.05
25	0.5	.710	7.70		86.80
35	1.0	.500	11.78		79.80
45	1.5	.355	17.65		69.74
60	2.0	.250	34.84		40.26
. 80	2.5	.180	50.80		12.89
120	3.0	.125	55.84		4.25
170	3.5	.090	56.50		3.12
200	3.75	.075	56.59		2.97
230	4.0	.063	57.42		1.53
PAN	•		58.26		.10
DUT (E)	·62	 TUT	(16): .70		5): 1.24
PHI (5)			(75): 2.28		4): 2.44
PHI (95)			(73). 2.20	, , , , , , , , , , , , , , , , , , , ,	1). 2.44
				CTT M / CT 337	
	LOSS(g)			SILT/CLAY	
SKEWNE	ss: 	 763		KURTOSIS	1.408
GRAPHI	C METHO	D	•		
MEAN (PHI): 1	.46		SORTING	: .87
	mm):			MEDIAN (mm)	: .28
			ED USING 5	POINT METH	
МОМЕМП	METHOD				
	PHI): 1			SORTING	: 1.04
		.33		231121110	1.04
ב עשעם	тт. т. мам	F. VC9619-	3 መጀመ		

DATA FILE NAME: VC9619-3.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-52-1

SAMPLE ELEV. (FT. NGVD): -53.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

TENTE WETCHE (CDAMC). 75 70

DRY SAMPLE WE SAMPLE WEIGHT				
SIEVE PHI SIZE SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 -4.0 5/16 -3.0 5 -2.0 7 -1.5 10 -1.0 14 -0.5 18 0.0 25 0.5 35 1.0 45 1.5 60 2.0 80 2.5 120 3.0 170 3.5 200 3.75 230 4.0 PAN	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .05 .10 .23 .89 1.88 4.02 19.92 46.47 66.25 72.96 73.67 73.88 74.04 74.89 75.71		100.00 100.00 99.93 99.87 99.70 98.83 97.52 94.70 73.71 38.68 12.58 3.72 2.78 2.51 2.30 1.17
PHI(5): .45 PHI(50): 1.34 PHI(95): 2.43	PHI (16): .75 75): 1.76		
SIEVE LOSS(g) SKEWNESS:	: .07 .167		SILT/CLAY: KURTOSIS:	
GRAPHIC METHOMEAN (PHI): 1 MEAN (mm): NOTE: MEAN WA	38 .38		SORTING: MEDIAN (mm): POINT METHO	.40
MOMENT METHOD MEAN (PHI): 1 MEAN (mm):	.35		SORTING:	.67

DATA FILE NAME: VC9652-1.TAB

BROWARD CO.VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-52-2

SAMPLE ELEV. (FT. NGVD): -58.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.57

SAMPLE WEIGHT AFTER WASH (GRAMS): 64.26

SIEVE SIZE	PHI SIZE	MESH SIZI (mm)	RETAI (GRA			INED %)	PASSI (%)	
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500	1 2 3 4 6 6 9 1 14 2 2 3 31	.00 .55 .62 .29 .85 .90 .77	2 4 6 10 15 22 33 47	.00 .00 .36 .00 .54 .45 .10 .53 .48 .32	96 93 89 84 77 66 52	
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075	5 59 5 63 0 64 5 64 3 64	.62 .43 .03 .15 .85	90 96 97 97 98 99	.93 .74 .65 .83 .89	9 3 2 2 1	.07 .26 .35 .17 .11
PHI(5): PHI(50) PHI(95)	: 1.55		I(16): I(75): 2			PHI (25 PHI (84	•	.61 .29
SIEVE I		: .06 695				/CLAY: TOSIS:		17% 206
MEAN (n	PHI): 1 m):	.09	TED USIN		MEDIAN		:	.12
	PHI): 1				so	RTING:	1	.23

DATA FILE NAME: VC9652-2.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-53-1

SAMPLE ELEV. (FT. NGVD): -41.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.25

		AFTER WASH			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	68.10 68.65	30.51 56.48 88.07 97.59 98.25 98.34 99.13	100.00 100.00 99.83 99.75 99.62 99.08 98.09 94.57 83.12 69.49 43.52 11.93 2.41 1.75
PAN PHI(5): PHI(50) PHI(95)	: 1.88		69.20 (16): .96 (75): 2.29	PHI(2	.07 5): 1.30 4): 2.44
SIEVE I	.oss(g)	.05 304	х .	SILT/CLAY KURTOSIS	
GRAPHIC MEAN (F MEAN (MEAN (MEA) (MEAN (MEA) (MEAN (MEAN (MEAN (MEA) (MEAN (MEA) (MEAN (MEA) (MEAN (MEA) (ME	PHI): 1 m):	.72 .30		SORTING MEDIAN (mm) POINT METH	: .27
MOMENT MEAN (F	PHI): 1			SORTING	;: .77

DATA FILE NAME: VC9653-1.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-53-2

SAMPLE ELEV. (FT. NGVD): -44.5

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.15

		GHT (GRAMS AFTER WASH			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.5 2.0 2.5 3.0 3.5 4.0		56.85	.95 1.48 2.68 5.00 10.87 23.47 36.17 59.00 87.64 97.01 97.70 97.76 98.62	100.00 100.00 99.52 99.05 98.52 97.32 95.00 89.13 76.53 63.83 41.00 12.36 2.99 2.30 2.24 1.38
PHI(5) PHI(50) PHI(95)	.00): 1.80): 2.89		(16): .70 (75): 2.28		5): 1.06 4): 2.44
SIEVE I	LOSS(g) SS:	.30 412		SILT/CLAY KURTOSIS	
MEAN (1	C METHOPHI): 1 mm): MEAN WA	.57 .34		SORTING MEDIAN (mm) POINT METH	: .29
MEAN (METHOD PHI): 1 mm):			SORTING	.93
DATA F	ILE NAM	E: VC9653-2	ATAB		

DATA FILE NAME: VC9653-2.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-53-3

SAMPLE ELEV. (FT. NGVD): -48.0 SAMPLE DEPTH (FT.): -6.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

		GHT (GRAM			
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .21 .45 .98 1.97 4.69 12.37 20.18 34.98 53.48 59.56 60.02	0 .00 .00 .34 .73 .73 .8 1.60 .7 3.22 .7.66 .7 20.20 .8 32.96 .8 57.13 .8 87.34 .97.27 .98.02 .98.11 .99.00	100.00 100.00 100.00 99.66 99.27 98.40 96.78 92.34 79.80 67.04 42.87 12.66 2.73 1.98 1.89 1.00
PHI(5): PHI(50): PHI(95):	1.85		(16): .83 (75): 2.30		(25): 1.19 (84): 2.44
SIEVE LO		.07 384	. ·	SILT/CL KURTOS	
MEAN (mr	HI): 1	.64 .32	ED USING S	SORTI MEDIAN (m 5 POINT ME	m): .28
	HI): 1	.70 .31		SORTI	NG: .83

DATA FILE NAME: VC9653-3.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-54-1

SAMPLE ELEV. (FT. NGVD): -44.6 SAMPLE DEPTH (FT.): -0.6

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 61.06

SAMPLE WEIGHT AFTER WASH (GRAMS): 60.06

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	78	1.28	98.72
7	-1.5	2.800	1.75	2.87	97.13
10	-1.0	2.000	3.84	6.29	93.71
14	-0.5	1.400	8.22	13.46	86.54
18	0.0	1.000	15.30	25.06	74.94
25	0.5	.710	25.02	40.98	59.02
35	1.0	.500	34.00	55.68	44.32
45	1.5	.355	38.46	62.99	37.01
60	2.0	.250	45.35	74.27	25.73
80	2.5		55.65	91.14	8.86
120	3.0		59.66	97.71	2.29
170	3.5			98.18	1.82
200	3.75				1.77
230	4.0	.063	60.49		.93
PAN			61.00	99.90	.10
	-1.19): 81	PHI PHI	(16):39 (75): 2.02	PHI(25	5): .00 4): 2.29
PHI (95)	: 2.79				
STEVE 1	LOSS(g)	: .06		SILT/CLAY:	1.77%
	SS:			KURTOSIS	
GRAPHI	C METHO	D			
MEAN (PHI):	.86		SORTING	1.34
		.55 S CALCULAT		MEDIAN (mm): POINT METHO	
MEAN (.87		SORTING	1.26
MEAN (1	mm):	.55			

DATA FILE NAME: VC9654-1.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-54-2

SAMPLE ELEV. (FT. NGVD): -46.5

SAMPLE DEPTH (FT.): -2.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.30

SAMPLE WEIGHT AFTER WASH (GRAMS): 51.94

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	51.94	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180	.00 .00 .00 .17 .44 1.04 2.10 4.22 7.91 11.53 21.36 40.54 50.93	.00 .00 .32 .83 1.95 3.94 7.92 14.84 21.63 40.08 76.06 95.55	100.00 100.00 100.00 99.68 99.17 98.05 96.06 92.08 85.16 78.37 59.92 23.94 4.45
170 200 230 PAN	3.5 3.75 4.0	.090 .075 .063	51.80 51.87 52.57 53.26	97.19 97.32 98.63 99.92	2.81 2.68 1.37 .08
PHI (50	: .13): 2.14): 2.99		16): 1.09 75): 2.49		5): 1.59 4): 2.70
SIEVE :	LOSS(g) SS:	: .04 715		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 1 mm) : MEAN WA	.81		SORTING MEDIAN (mm) POINT METH	: .23
MEAN (METHOD PHI): 1	.92		SORTING	: .88

DATA FILE NAME: VC9654-2.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-54-3

SAMPLE ELEV. (FT. NGVD): -50.0 SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 57.07

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.70

SIEVE SIZE	PHI	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5 7	-2.0 -1.5	4.000 2.800	.00	.00 .07	100.00
10	-1.0	2.000	.04	.40	99.60
14	-0.5	1.400	.87		98.48
18	0.0	1.000	1.71		97.00
25	0.5	.710	3.03	5.31	94.69
35	1.0	.500	5.88		89.70
45	1.5	.355	11.21		80.36
60	2.0	.250	26.03		54.39
.80	2.5	.180	40.75		28.60
120	3.0	.125	52.84		7.41
170	3.5	.090	. 55.33	96.95	3.05
200	3.75	.075	55.56	97.35	2.65
230	4.0	.063	56.29	98.64	1.36
PAN			56.99	99.86	.14
PHI(5)	: .43	PHI	(16): 1.30	PHI(2	5): 1.60
PHI (50)		PHI	(75): 2.58	PHI(8	4): 2.80
SKEWNE	LOSS(g) SS:	: .08 309		SILT/CLAY KURTOSIS	
	C METHO				
	PHI): 1			SORTING	_
				MEDIAN (mm)	
NOTE: 1	MEAN WA	S CALCULATI	ED USING 5	POINT METH	OD
MOMENT	METHOD				
	PHI): 1			SORTING	. 83
•	•	.25			

DATA FILE NAME: VC9654-3.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 11/96

.

SAMPLE NO.: VC96-54-4

SAMPLE ELEV. (FT. NGVD): -53.0

SAMPLE DEPTH (FT.): -9.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.39

SAMPLE WEIGHT AFTER WASH (GRAMS): 66.57

SIEVE PHI MESH SIZE (mm) (GRAMS) (%) (%) (%) 5/8	SAMPLE	WEIGHT	APIER WAS	ii (GRAMD).	00.57	
5/16						
45 1.5 .355 22.97 33.59 66.41 60 2.0 .250 45.61 66.69 33.31 80 2.5 .180 59.45 86.93 13.07 120 3.0 .125 64.91 94.91 5.09 170 3.5 .090 66.24 96.86 3.14 200 3.75 .075 66.42 97.12 2.88 230 4.0 .063 67.36 98.49 1.51 PAN 68.28 99.84 .16 PHI(5):41 PHI(16): .85 PHI(25): 1.22 PHI(50): 1.75 PHI(75): 2.21 PHI(84): 2.43 PHI(95): 3.02 SIEVE LOSS(g): .11 SILT/CLAY: 2.88% SKEWNESS:558 KURTOSIS: 1.422 GRAPHIC METHOD MEAN (PHI): 1.53 SORTING: .79 MEAN (mm): .35 MEDIAN (mm): .30 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.60 SORTING: .98	5/16 5 7 10 14 18	-3.0 -2.0 -1.5 -1.0 -0.5 0.0	8.000 4.000 2.800 2.000 1.400	.00 .46 .98 1.58 3.12 4.77	.00 .67 1.43 2.31 4.56 6.97	100.00 99.33 98.57 97.69 95.44 93.03
PHI(50): 1.75 PHI(75): 2.21 PHI(84): 2.43 PHI(95): 3.02 SIEVE LOSS(g): .11 SILT/CLAY: 2.88% SKEWNESS:558 KURTOSIS: 1.422 GRAPHIC METHOD MEAN (PHI): 1.53 SORTING: .79 MEAN (mm): .35 MEDIAN (mm): .30 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.60 SORTING: .98	45 60 80 120 170 200 230	1.5 2.0 2.5 3.0 3.5 3.75	.355 .250 .180 .125 .090	22.97 45.61 59.45 64.91 66.24 66.42 67.36	33.59 66.69 86.93 94.91 96.86 97.12 98.49	66.41 33.31 13.07 5.09 3.14 2.88 1.51
SKEWNESS:558 KURTOSIS: 1.422 GRAPHIC METHOD MEAN (PHI): 1.53 SORTING: .79 MEAN (mm): .35 MEDIAN (mm): .30 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.60 SORTING: .98	PHI (50)): 1.75			•	
MEAN (PHI): 1.53 SORTING: .79 MEAN (mm): .35 MEDIAN (mm): .30 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.60 SORTING: .98				400 Ties film stir site and site can site site		
MEAN (PHI): 1.60 SORTING: .98	MEAN (1	PHI): 1 mm):	.53 .35		MEDIAN (mm)	.30
	MEAN (1	PHI): 1			SORTING	.98

DATA FILE NAME: VC9654-4.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-55-1

SAMPLE ELEV. (FT. NGVD): -41.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 60.74

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.51

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	59.51	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED 1	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	.075	.00 .08 .13 .30 .73 1.55 3.59 8.07 12.68 24.33 48.72 58.73 59.41	.00 .13 .21 .49 1.20 2.55 5.91 13.29 20.88 40.06 80.21 96.69 97.81 97.91	100.00 100.00 99.87 99.79 99.51 98.80 97.45 94.09 86.71 79.12 59.94 19.79 3.31 2.19 2.09
230 PAN	4.0	.063	60.10 60.72		1.06
PHI(5): PHI(50) PHI(95)): 2.12		(16): 1.18 (75): 2.44): 1.61): 2.61
SIEVE I	LOSS(g) SS:	.02 651		SILT/CLAY: KURTOSIS:	2.09% 1.280
MEAN (I	mm):	.85 .28		SORTING: MEDIAN (mm): POINT METHO	.72 .23
MEAN (I		.93 .26		SORTING:	.80

DATA FILE NAME: VC9655-1.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-55-2

SAMPLE ELEV. (FT. NGVD): -44.5 SAMPLE DEPTH (FT.): -4.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

		GHT (GRAMS AFTER WASH			
SIEVE	PHI SIZE	MESH SIZE (mm)			PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .45 .93 1.69 3.04 5.08 9.65 17.00 22.93 34.65 55.56 63.52 64.05 64.13 64.89 65.65	14.69 25.87 34.90 52.73 84.55 96.67 97.47 97.60 98.75	100.00 100.00 99.32 98.58 97.43 95.37 92.27 85.31 74.13 65.10 47.27 15.45 3.33 2.53 2.40 1.25
PHI(5): PHI(50) PHI(95)	: 1.92		16): .56 75): 2.35		
	Coss(g)	: .06 701		SILT/CLAY KURTOSIS	
MEAN (I	nm):	.49 .36		SORTING MEDIAN (mm) POINT METHO	. 26
•	PHI): 1	.60 .33		SORTING	: 1.06

MEAN (mm) : .33

DATA FILE NAME: VC9655-2.TAB

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: SK ON: 10/96

TESTED BI: SK ON: 10/90

SAMPLE NO.: VC96-55-3

SAMPLE ELEV. (FT. NGVD): -47.5

SAMPLE DEPTH (FT.): -7.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

SIEVE PHI MESH SIZE RETAINED RETAINED PASSED

DRY SAMPLE WEIGHT (GRAMS): 61.25

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.44

SIZE	SIZE	(mm)	(GRAMS)	(%)	(%)		
5/8 5/16 5 7 10 14 18 25 35 45 60	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250	.00 .00 .63 1.83 3.65 5.83 7.86 10.81 16.83 24.98 39.62	.00 .00 1.03 2.99 5.96 9.52 12.83 17.65 27.48 40.78 64.69	100.00 100.00 98.97 97.01 94.04 90.48 87.17 82.35 72.52 59.22 35.31		
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075 .063	54.11 58.89 59.24 59.31 60.24 61.15	88.34 96.15 96.72 96.83 98.34 99.84	11.66 3.85 3.28 3.17 1.66 .16		
PHI(50	: -1.16 0): 1.69 5): 2.93		16): .33 75): 2.22		5): .87 4): 2.41		
SIEVE	, -,	.10 779		SILT/CLAY: KURTOSIS			
MEAN MEAN	C METHOD (PHI): 1.2 (mm): .4 MEAN WAS	2	ME D USING 5 F	SORTING EDIAN (mm) POINT METHO	.31		
MEAN	r METHOD (PHI): 1.3 (mm): .3			SORTING	1.19		
DATA I	DATA FILE NAME: VC9655-3.TAB						



EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-23

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 2.38 4.49 7.88 13.74 20.63 29.15 36.28 40.00 46.13 58.81 83.03 92.82 93.94 96.95 99.88	.00 .00 2.38 4.49 7.88 13.74 20.63 29.15 36.28 40.00 46.13 58.81 83.03 92.82 93.94 96.95 99.88	100.00 100.00 97.62 95.51 92.12 86.26 79.37 70.85 63.72 60.00 53.87 41.19 16.97 7.18 6.06 3.05
PHI(5): PHI(50) PHI(95)	: 2.15	PHI (16):34 75): 2.83		5): .26
SIEVE I		: .12 559		SILT/CLAY KURTOSIS	
MEAN (n	HI): 1 m):	.46		SORTING EDIAN (mm) POINT METH	: .22
•	PHI): 1	.50 .35		SORTING	: 1.61

DATA FILE NAME: VC96-23.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-70

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.00

		AFTER WASH			
SIEVE SIZE		MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 1.86 2.64 3.90 5.56 7.08 9.49 13.39 17.41 26.08 45.26 81.89 91.68 92.89 96.52 99.91	1.86 2.64 3.90 5.56 7.08 9.49 13.39 17.41 26.08 45.26 81.89 91.68 92.89 96.52	100.00 100.00 98.14 97.36 96.10 94.44 92.92 90.51 86.61 82.59 73.92 54.74 18.11 8.32 7.11 3.48
PHI (50	:67): 2.56): 3.90	PHI (16): 1.32 75): 2.91	PHI(2: PHI(8	5): 1.94 4): 3.11
SIEVE SKEWNE	LOSS(g)	.09 -1.067		SILT/CLAY KURTOSIS	
MEAN (C METHODE PHI): 2 mm): MEAN WA	.04 .24		SORTING MEDIAN (mm) POINT METH	.17
MEAN (:	METHOD PHI): 2 mm):	.22		SORTING	: 1.24
ש אייטאר בדי	TTT NINM	F. 37C06_70	ת א דם		

DATA FILE NAME: VC96-70.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-71

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	100.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075	.00 .00 1.69 2.44 3.40 4.52 5.83 7.99 11.64 15.47 23.61 40.49 77.89 90.72 92.63 96.44	.00 .00 1.69 2.44 3.40 4.52 5.83 7.99 11.64 15.47 23.61 40.49 77.89 90.72 92.63 96.44	100.00 100.00 98.31 97.56 96.60 95.48 94.17 92.01 88.36 84.53 76.39 59.51 22.11 9.28 7.37 3.56
PAN			99.90	99.90	.10
	:32): 2.63): 3.91	PHI	(16): 1.53 (75): 2.96	•	5): 2.04 4): 3.24
SIEVE SKEWNE		: .10 977		SILT/CLAY KURTOSIS	
MEAN (.20 .22		SORTING MEDIAN (mm) POINT METH	: .16
MEAN (METHOD PHI): 2 mm):			SORTING	: 1.20

DATA FILE NAME: VC96-71.TAB

INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA V 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-23-1

SAMPLE ELEV. (FT. NGVD): -68.5

SAMPLE DEPTH (FT.): -0.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 37.66

SAMPLE WEIGHT AFTER WASH (GRAMS): 35.07

Dimit Di	***************************************		(014112)		
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250	.00 .00 .03 .10 .22 .69 1.47 2.74 4.38 5.67 8.56	.00 .00 .08 .27 .58 1.83 3.90 7.28 11.63 15.06 22.73	100.00 100.00 99.92 99.73 99.42 98.17 96.10 92.72 88.37 84.94 77.27
80 120 170 200 230 PAN	2.5 3.0 3.5 3.75 4.0	.180 .125 .090 .075 .063	15.36 28.83 34.17 34.83 36.25 37.60	40.79 76.55 90.73 92.49 96.27 99.84	59.21 23.45 9.27 7.51 3.73 .16
PHI (50	.16): 2.63): 3.92		16): 1.56 75): 2.98		5): 2.06 4): 3.26
SIEVE SKEWNE	LOSS(g) SS:	: .06 693	· · ·	SILT/CLAY KURTOSIS	
GRAPHIC METHOD MEAN (PHI): 2.31 SORTING: .85 MEAN (mm): .20 MEDIAN (mm): .16 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD					
MEAN (METHOD PHI): 2 mm) :			SORTING	: 1.00

DATA FILE NAME: VC9623-1.TAB

BROWARD CO. VIBRACORES BA V 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-23-2

SAMPLE ELEV. (FT. NGVD): -72.5

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.71

SAMPLE WEIGHT AFTER WASH (GRAMS): 56.34

SAMPLE	WEIGHT	AFTER	WASH	(GKAMS):	56.3) 4 	
SIEVE SIZE	PHI SIZE	MESH (mm)		RETAINED (GRAMS)			PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.75 4.0	8 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.000 .000 .000 .800 .000 .400 .710 .500 .355 .250 .180 .125	.00 .00 2.29 4.63 8.27 13.84 20.11 27.30 32.54 34.68 37.52 42.81 55.93 56.25 57.46	3	.00 .00 .90 .89 .09 .57 .25 .50 .42 .07 .91 .92 .10 .26	100.00 100.00 96.10 92.11 85.91 76.43 65.75 53.50 44.58 40.93 36.09 27.08 10.90 4.74 4.19 2.12
PHI (50	: -1.86): .70): 3.48			16):90 75): 2.56):43): 2.84
SIEVE SKEWNE	LOSS(g) SS:	: .04 .06				/CLAY: TOSIS:	
MEAN (C METHO PHI): mm): MEAN WA	.85 .55	ULATE	D USING S	MEDIAN		. 62
MEAN (.85 .55			so	RTING:	1.69

DATA FILE NAME: VC9623-2.TAB

BROWARD CO. VIBRACORES BA V 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-23-3

SAMPLE ELEV. (FT. NGVD): -77.0

SAMPLE DEPTH (FT.): -9.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 47.17

SAMPLE WEIGHT AFTER WASH (GRAMS): 43.57

5/16		***************************************		(0101115)		
5/16						
7 -1.5 2.800 1.43 3.03 96.97 10 -1.0 2.000 2.21 4.69 95.31 14 -0.5 1.400 4.34 9.20 90.80 18 0.0 1.000 6.90 14.63 85.37 25 0.5 .710 10.47 22.20 77.80 35 1.0 .500 13.82 29.30 70.70 45 1.5 .355 15.82 33.54 66.46 60 2.0 .250 19.01 40.30 59.70 80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(50): 2.37 PHI(16): .09 PHI(25): .70 PHI(50): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm) : .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MEAN (PHI): 1.76 SORTING: 1.50	5/16	-3.0	8.000	.00	.00	100.00
10 -1.0 2.000 2.21 4.69 95.31 14 -0.5 1.400 4.34 9.20 90.80 18 0.0 1.000 6.90 14.63 85.37 25 0.5 .710 10.47 22.20 77.80 35 1.0 .500 13.82 29.30 70.70 45 1.5 .355 15.82 33.54 66.46 60 2.0 .250 19.01 40.30 59.70 80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.56 MOMENT METHOD MEAN (PHI): 1.76						
14						
18						
25 0.5 .710 10.47 22.20 77.80 35 1.0 .500 13.82 29.30 70.70 45 1.5 .355 15.82 33.54 66.46 60 2.0 .250 19.01 40.30 59.70 80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN						
35 1.0 .500 13.82 29.30 70.70 45 1.5 .355 15.82 33.54 66.46 60 2.0 .250 19.01 40.30 59.70 80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.56 MEAN (PHI): 1.76						
45						
60 2.0 .250 19.01 40.30 59.70 80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15						
80 2.5 .180 25.23 53.49 46.51 120 3.0 .125 37.30 79.08 20.92 170 3.5 .090 42.71 90.54 9.46 200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51						59.70
170	- 80	2.5	.180	25.23	53.49	46.51
200 3.75 .075 43.39 91.99 8.01 230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51	120					20.92
230 4.0 .063 45.26 95.95 4.05 PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51						9.46
PAN 47.10 99.85 .15 PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MOMENT METHOD MOMENT METHOD MOMENT METHOD MOMENT METHOD MOMENT METHOD SORTING: 1.51						
PHI(5):97 PHI(16): .09 PHI(25): .70 PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MOMENT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51		4.0	.063			
PHI(50): 2.37 PHI(75): 2.92 PHI(84): 3.21 PHI(95): 3.94 SIEVE LOSS(g): .07 SILT/CLAY: 8.018 SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51	PAN			47.10	99.85	.15
SKEWNESS:564 KURTOSIS: .904 GRAPHIC METHOD MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51	PHI (50): 2.37				
MEAN (PHI): 1.73 SORTING: 1.56 MEAN (mm): .30 MEDIAN (mm): .19 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.76 SORTING: 1.51						
MEAN (PHI): 1.76 SORTING: 1.51	MEAN (PHI): 1 mm):	.73 .30		MEDIAN (mm): .19
	MOMENT MEAN (METHOD PHI): 1	.76			

DATA FILE NAME: VC9623-3.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-70-1 SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -0.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 62.16

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.38

PWILTE	WEIGHT	AFIER WADII	(GIGHID).	30.30	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5	-4.0 -3.0 -2.0	16.000 8.000 4.000	.00	.00 .00 .14	100.00 100.00 99.86
7 10	-1.5 -1.0	2.800 2.000	.38 .99	.61 1.59	99.39 98.41
14 18	-0.5 0.0 0.5	1.400 1.000 .710	1.81 2.51 3.55	2.91 4.04 5.71	97.09 95.96
25 35 45	1.0 1.5	.500 .355	5.39 7.57	8.67 12.18	94.29 91.33 87.82
60 80	2.0 2.5	.250 .180	12.75 25.61	20.51 41.20	79.49 58.80
120 170 200	3.0 3.5 3.75	.125 .090 .075	50.96 57.34 58.08	81.98 92.25 93.44	18.02 7.75 6.56
230 PAN	4.0	.063	60.19	96.83 99.95	3.17
PHI (50	: .29): 2.61): 3.87	PHI (16): 1.73 75): 2.91		5): 2.11 4): 3.10
SIEVE SKEWNE	LOSS(g) SS:	: .03 777		SILT/CLAY KURTOSIS	
MEAN (C METHO PHI): 2 mm): MEAN WA	.32		SORTING MEDIAN (mm) POINT METH	: .16
MEAN (METHOD PHI): 2 mm) :			SORTING	• .97
DATA F	ILE NAM	E: VC9670-1	.TAB		

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DATA FILE NAME: VC9670-1.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-70-2

SAMPLE ELEV. (FT. NGVD): -75.0 SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.87

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.50

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710	.00 .04 .08 .23 .49 .95 1.92 3.81	.00 .00 .07 .14 .40 .86 1.67 3.38 6.70	100.00 100.00 99.93 99.86 99.60 99.14 98.33 96.62 93.30
45 60 80 120 170 200 230 PAN	1.5 2.0 2.5 3.0 3.5 3.75 4.0	.355 .250 .180 .125 .090 .075 .063	5.83 10.80 24.04 48.75 53.82 54.25 55.58 56.83	10.25 18.99 42.27 85.72 94.64 95.39 97.74	89.75 81.01 57.73 14.28 5.36 4.61 2.26
PHI(5): PHI(50) PHI(95)			(16): 1.83 (75): 2.88		(5): 2.13 (4): 2.98
SIEVE I	LOSS(g) SS:	: .04 707		SILT/CLAY KURTOSIS	
MEAN (I	C METHOPHI): 2 nm): MEAN WA	.35 .20		SORTING MEDIAN (mm) POINT METH	: .17
MEAN (I	METHOD PHI): 2 nm) :			SORTING	.79

DATA FILE NAME: VC9670-2.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-70-3

SAMPLE ELEV. (FT. NGVD): -78.5

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 52.07

SAMPLE WEIGHT AFTER WASH (GRAMS): 47.62

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090	.00 .00 2.15 2.91 4.02 5.43 6.61 8.34 10.86 13.29 17.87 25.89 41.19 46.46 47.28	.00 .00 4.13 5.59 7.72 10.43 12.69 16.02 20.86 25.52 34.32 49.72 79.11 89.23 90.80	100.00 100.00 95.87 94.41 92.28 89.57 87.31 83.98 79.14 74.48 65.68 50.28 20.89 10.77 9.20
230 PAN	4.0	.063	49.72 52.00	95.48 99.87	4.52
PHI(5): PHI(50) PHI(95)	: 2.50	•	16): .50 75): 2.93	•	5): 1.44 2): 3.24
SIEVE I	COSS(g) SS:	.07 997		SILT/CLAY: KURTOSIS:	
MEAN (I	METHOPHI): 1 nm): 1EAN WAS	.70 .31		SORTING: MEDIAN (mm): POINT METHO	.18
•	PHI): 1	.88 .27		sorting:	1.56

DATA FILE NAME: VC9670-3.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-71-1

SAMPLE ELEV. (FT. NGVD): -71.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 57.83

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.46

SAMPLE	WEIGHI	AFIER WASH	(GRAND).	33.40	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000		.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.08	.14	99.86
7	-1.5	2.800	.10	.17	99.83
10	-1.0	2.000	.14		99.76
14	-0.5	1.400	.38	.66	99.34
18	0.0	1.000	.90		98.44
25	0.5	.710	2.02	3.49	96.51
35	1.0	.500	4.16		92.81
45	1.5	.355	6.63 11.90		88.54
60 80	2.0 2.5	.250 .180	23.59		79.42
120	3.0	.125	48.60		59.21 15.96
170	3.5	.090	54.87		5.12
200	3.75	.075	55.31		4.36
230	4.0	.063	56.59		2.15
PAN	7.0	.003	57.79		.07
PHI(5)	: .70	PHI(16): 1.75	PHI(2	5): 2.11
PHI(50): 2.61		75): 2.90		4): 3.00
): 3.54	· 		,	
		: .04	· -	SILT/CLAY	
SKEWNE	ss:	 776	•	KURTOSIS	1.478
GRAPHI	C METHO	D			
	PHI): 2			SORTING	. 63
	mm):			MEDIAN (mm)	
				POINT METH	
MOMENT	METHOD				
	PHI): 2			SORTING	.80
	•	.19			

DATA FILE NAME: VC9671-1.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-71-2

SAMPLE ELEV. (FT. NGVD): -74.0

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 62.86

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.86

SAMPLE	WEIGHT	AFIER WASH	(GRAMS):	39.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)		PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125	2.54 3.32 4.09 4.83 6.07 8.31 10.66 15.74 27.01	.00 2.99 4.04 5.28 6.51 7.68 9.66 13.22 16.96 25.04 42.97 83.25	100.00 100.00 97.01 95.96 94.72 93.49 92.32 90.34 86.78 83.04 74.96 57.03 16.75
200 230 PAN	3.75 4.0	.075 .063	59.49 61.17 62.78	94.64 97.31	6.22 5.36 2.69 .13
PHI (50	: -1.11): 2.59): 3.78		16): 1.37 75): 2.90		25): 2.00 84): 3.04
	LOSS(g) SS:	: .08 -1.505		SILT/CLA KURTOSI	Y: 5.36% S: 2.230
MEAN (C METHO PHI): 1 mm): MEAN WA	.93		SORTIN MEDIAN (mm POINT MET): .17
MEAN (:	METHOD PHI): 2 mm) :	.23 		SORTIN	G: 1.31
ב עשעם	TT.TO NIXM	F. 77C0671-2	בו גיוח י		

DATA FILE NAME: VC9671-2.TAB

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-71-3

SAMPLE ELEV. (FT. NGVD): -78.5

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 52.44

SAMPLE WEIGHT AFTER WASH (GRAMS): 45.87

SIEVE SIZE (mm) (GRAMS) (%) (%) (%) 5/8 -4.0 16.000 .00 .00 100.00 5/16 -3.0 8.000 .00 .00 100.00 5 -2.0 4.000 49 .93 99.07 7 -1.5 2.800 1.00 1.91 98.09 10 -1.0 2.000 1.72 3.28 96.72 14 -0.5 1.400 2.59 4.94 95.06 18 0.0 1.000 3.65 6.96 93.04 25 0.5 .710 5.07 9.67 90.33 35 1.0 .500 7.05 13.44 86.56 45 1.5 .355 8.91 16.99 83.01 60 2.0 .250 12.68 24.18 75.82 80 2.5 .180 18.69 35.64 64.36 120 3.0 .125 32.30 61.59 38.41 170 3.5 .090 42.32 80.70 19.30 200 3.75 .075 44.98 85.77 14.23 230 4.0 .063 48.97 93.37 6.63 PAN 52.41 99.94 .06 PHI(5):48 PHI(16): 1.36 PHI(25): 2.04 PHI(50): 2.78 PHI(75): 3.35 PHI(84): 3.66 PHI(95): 4.05 SIEVE LOSS(g): .03 SILT/CLAY: 14.23% SKEWNESS:862 KURTOSIS: 1.414 GRAPHIC METHOD MEAN (PHI): 2.27 SORTING: 1.15 MEAN (mm): .21 MEDIAN (mm): .15 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 2.36 SORTING: 1.31 MEAN (PHI): 2.36 MEAN (mm): .20	D11111 1111	""	111 1 111 111111	(014115)		
5/16						
120	5/16 5 7 10 14 18 25 35 45 60	-3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0	8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355	.00 .49 1.00 1.72 2.59 3.65 5.07 7.05 8.91 12.68	.00 .93 1.91 3.28 4.94 6.96 9.67 13.44 16.99 24.18	100.00 99.07 98.09 96.72 95.06 93.04 90.33 86.56 83.01 75.82
PHI(50): 2.78 PHI(75): 3.35 PHI(84): 3.66 PHI(95): 4.05 SIEVE LOSS(g): .03 SILT/CLAY: 14.23% SKEWNESS:862 KURTOSIS: 1.414 GRAPHIC METHOD MEAN (PHI): 2.27 SORTING: 1.15 MEAN (mm): .21 MEDIAN (mm): .15 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 2.36 SORTING: 1.31	120 170 200 230	3.0 3.5 3.75	.125 .090 .075	32.30 42.32 44.98 48.97	61.59 80.70 85.77 93.37	38.41 19.30 14.23 6.63
SKEWNESS:862 KURTOSIS: 1.414 GRAPHIC METHOD MEAN (PHI): 2.27 SORTING: 1.15 MEAN (mm): .21 MEDIAN (mm): .15 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 2.36 SORTING: 1.31	PHI (50)): 2.78				
MEAN (PHI): 2.27 SORTING: 1.15 MEAN (mm): .21 MEDIAN (mm): .15 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 2.36 SORTING: 1.31						
MEAN (PHI): 2.36 SORTING: 1.31	MEAN (1	PHI): 2 mm):	.27 .21		MEDIAN (mm)	.15
	MEAN (PHI): 2			SORTING	: 1.31

DATA FILE NAME: VC9671-3.TAB



EACH CORE COMPOSITE AND GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-24

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

SAMPLE	WEIGHT	AFTER WASH	(GRAMS):	100.00	
SIEVE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .36 .66 1.29 2.97 6.45 15.90 34.68 54.83 83.80 95.67 98.14 98.20 99.90	.00 .00 .36 .66 1.29 2.97 6.45 15.90 34.68 54.83 83.80 95.06 97.67 98.14 98.20 99.06 99.90	100.00 100.00 99.64 99.34 98.71 97.03 93.55 84.10 65.32 45.17 16.20 4.94 2.33 1.86 1.80
PHI(5)	:21): 1.38): 2.50		16): .50 75): 1.85	PHI(25	.10 5): .74 4): 2.01
SIEVE :	LOSS(g) SS:	: .10 313		SILT/CLAY: KURTOSIS:	
MEAN (C METHO: PHI): 1 mm): MEAN WA	.24 .42		SORTING: MEDIAN (mm): POINT METHO	.38
MEAN (METHOD PHI): 1 mm):	.27 .42		SORTING	.86

DATA FILE NAME: VC96-24.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-59

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

		AFTER WASH	(GRAMS):		
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355 .250 .180 .125 .090 .075 .063	.00 .00 .71 1.29 2.12 3.81 7.89 19.43 39.93 56.96 81.40 93.93 96.63 96.97 97.04 98.47		100.00 100.00 99.29 98.71 97.88 96.19 92.11 80.57 60.07 43.04 18.60 6.07 3.37 3.03 2.96 1.53
PHI (50)	:35): 1.30): 2.70		99.89 (16): .35 (75): 1.87	PHI (2	.11 5): .64 4): 2.10
SKEWNE	LOSS(g) SS:	: .11 141		SILT/CLAY KURTOSIS	
MEAN (1	C METHOD PHI): 1 mm): MEAN WA	.22 .43		SORTING MEDIAN (mm) POINT METH	: .41
MEAN (METHOD PHI): 1 mm) :			SORTING	· .95

DATA FILE NAME: VC96-59.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-60

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

0111111111	***************************************	711 1 111 (111011	(014115).	200.00	
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8 5/16 5 7 10 14 18 25 35 45	-4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0	16.000 8.000 4.000 2.800 2.000 1.400 1.000 .710 .500 .355	.00 .00 .15 .41 .76 1.73 6.21 16.05 31.60 49.79	.00 .00 .15 .41 .76 1.73 6.21 16.05 31.60 49.79	100.00 100.00 99.85 99.59 99.24 98.27 93.79 83.95 68.40 50.21
60 80 120 170 200 230 PAN	2.0 2.5 3.0 3.5 3.75 4.0	.250 .180 .125 .090 .075 .063	75.37 92.16 96.36 96.82 96.89 98.40 99.88	75.37 92.16 96.36 96.82 96.89 98.40 99.88	24.63 7.84 3.64 3.18 3.11 1.60
PHI (50)	:14): 1.50): 2.84		16): .50 75): 1.99	•	5): .79 5): 2.26
SIEVE SKEWNES		: .12 173		SILT/CLAY: KURTOSIS:	
MEAN (1	C METHO PHI): 1 mm) : MEAN WA	.39 .38		SORTING: MEDIAN (mm): POINT METHO	.35
MEAN (METHOD PHI): 1 mm) :			sorting:	.89

DATA FILE NAME: VC96-60.TAB

INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA VI 9/96

TESTED BY: LD ON: 10/96

SAMPLE NO.: VC96-24-1

SAMPLE ELEV. (FT. NGVD): -37.7

SAMPLE DEPTH (FT.): -0.7 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 44.62

SAMPLE WEIGHT AFTER WASH (GRAMS): 43.79

| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                             | RETAINED<br>(%)                                                                                   | PASSED<br>(%)                                                                                                                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.5<br>2.0<br>2.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>.18<br>.47<br>1.54<br>3.76<br>9.33<br>18.92<br>28.03<br>39.48<br>42.92<br>43.59<br>43.71<br>43.72 | .00<br>.40<br>1.05<br>3.45<br>8.43<br>20.91<br>42.40<br>62.82<br>88.48<br>96.19<br>97.69<br>97.96 | 100.00<br>100.00<br>100.00<br>99.60<br>98.95<br>96.55<br>91.57<br>79.09<br>57.60<br>37.18<br>11.52<br>3.81<br>2.31<br>2.04<br>2.02<br>1.06 |
| PAN PHI(5): PHI(50) PHI(95)                                                                       | 34<br>: 1.19                                                                                   | PHI (                                                                                                                        | 44.57<br>(16): .30<br>(75): 1.74                                                                                | 99.89<br>PHI(2                                                                                    | .11<br>.25): .60                                                                                                                           |
| SIEVE I                                                                                           | Loss(g)                                                                                        | : .05<br>182                                                                                                                 |                                                                                                                 | SILT/CLAY<br>KURTOSIS                                                                             |                                                                                                                                            |
| MEAN (I<br>MEAN (I                                                                                | C METHO<br>PHI): 1<br>nm):<br>MEAN WA                                                          | .10<br>.47                                                                                                                   |                                                                                                                 | SORTING<br>MEDIAN (mm)<br>POINT METH                                                              | .44                                                                                                                                        |
|                                                                                                   | METHOD<br>PHI): 1                                                                              |                                                                                                                              |                                                                                                                 | SORTING                                                                                           | G: .84                                                                                                                                     |
| D3.003 D3                                                                                         |                                                                                                | T. 1700 CO 4                                                                                                                 |                                                                                                                 |                                                                                                   |                                                                                                                                            |

DATA FILE NAME: VC9624-1.TAB

BROWARD CO. VIBRACORES BA VI 9/96

TESTED BY: LD ON: 10/96

SAMPLE NO.: VC96-24-2

SAMPLE ELEV. (FT. NGVD): -41.0 SAMPLE DEPTH (FT.): -4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

|                                                                                                          |                                                                                                      | GHT (GRAMS<br>AFTER WASH                                                                                                             |                                                                                                                         |                                                                                                                                                     |                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                          | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                     | RETAINED<br>(%)                                                                                                                                     | PASSED<br>(%)                                                                                                                            |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>.33<br>.54<br>1.00<br>2.00<br>4.05<br>9.62<br>20.87<br>32.81<br>49.07<br>54.73<br>55.96<br>55.99<br>56.49 | .00<br>.00<br>.58<br>.95<br>1.75<br>3.51<br>7.10<br>16.86<br>36.58<br>57.51<br>86.01<br>95.93<br>97.83<br>97.83<br>98.09<br>98.14<br>99.02<br>99.89 | 100.00<br>100.00<br>99.42<br>99.05<br>98.25<br>96.49<br>92.90<br>83.14<br>63.42<br>42.49<br>13.99<br>4.07<br>2.17<br>1.91<br>1.86<br>.98 |
|                                                                                                          | :29<br>): 1.32<br>): 2.45                                                                            |                                                                                                                                      | 16): .46<br>75): 1.81                                                                                                   |                                                                                                                                                     | 5): .71<br>4): 1.96                                                                                                                      |
| SIEVE I                                                                                                  | LOSS(g)                                                                                              | .06<br>318                                                                                                                           |                                                                                                                         | SILT/CLAY<br>KURTOSIS                                                                                                                               |                                                                                                                                          |
| MEAN (I<br>MEAN (I                                                                                       | C METHOPHI): 1 nm): MEAN WA                                                                          | .18<br>.44                                                                                                                           |                                                                                                                         | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                                                | : .40                                                                                                                                    |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                           |                                                                                                                                      |                                                                                                                         | SORTING                                                                                                                                             | : .87                                                                                                                                    |

DATA FILE NAME: VC9624-2.TAB

BROWARD CO. VIBRACORES BA VI 9/96

TESTED BY: LD ON: 10/96

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SAMPLE NO.: VC96-24-3

SAMPLE ELEV. (FT. NGVD): -45.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 48.83

SAMPLE WEIGHT AFTER WASH (GRAMS): 48.15

| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                                     | RETAINED<br>(%)                                                                      | PASSED<br>(%)                                                                                                              |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>.02<br>.11<br>.61<br>1.74<br>5.06<br>12.21<br>20.96<br>36.69<br>44.96<br>47.48<br>48.04<br>48.10<br>48.45 | 1.25<br>3.56<br>10.36<br>25.01<br>42.92<br>75.14<br>92.07<br>97.24<br>98.38<br>98.51 | 100.00<br>100.00<br>100.00<br>99.96<br>99.77<br>98.75<br>96.44<br>89.64<br>74.99<br>57.08<br>24.86<br>7.93<br>2.76<br>1.62 |
| PAN                                                                                               | 4.0                                                                                           | .003                                                                                                                         | 48.45                                                                                                                   |                                                                                      | .78<br>.06                                                                                                                 |
| PHI (50)                                                                                          | : .11<br>): 1.61<br>): 2.78                                                                   |                                                                                                                              | (16): .69<br>(75): 2.00                                                                                                 |                                                                                      | 5): 1.00<br>4): 2.26                                                                                                       |
| SIEVE I                                                                                           | LOSS(g)<br>SS:                                                                                | : .03<br>211                                                                                                                 |                                                                                                                         | SILT/CLAY<br>KURTOSIS                                                                |                                                                                                                            |
| MEAN (1                                                                                           | •                                                                                             | .49<br>.36                                                                                                                   |                                                                                                                         | SORTING<br>MEDIAN (mm)<br>POINT METH                                                 | : .33                                                                                                                      |
| MEAN (                                                                                            | METHOD<br>PHI): 1<br>mm) :                                                                    |                                                                                                                              |                                                                                                                         | SORTING                                                                              | .79                                                                                                                        |
| יא מייער                                                                                          | אמא יד.ד                                                                                      | F. VC9624-                                                                                                                   | ያ ጥልዌ                                                                                                                   |                                                                                      |                                                                                                                            |

DATA FILE NAME: VC9624-3.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-59-1

SAMPLE ELEV. (FT. NGVD): -40.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.18

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.98

| SAMPLE                                                    | WEIGHI                                                            | APTEK WADII                                                                          | (didnib).                                                                           | 34.70                                                                                |                                                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                             | PHI<br>SIZE                                                       | MESH SIZE (mm)                                                                       | RETAINED<br>(GRAMS)                                                                 |                                                                                      | PASSED<br>(%)                                                                                     |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355 | .00<br>.00<br>.01<br>.19<br>.59<br>1.53<br>3.98<br>10.33<br>19.72<br>28.10<br>43.57 | .00<br>.00<br>.02<br>.34<br>1.05<br>2.72<br>7.08<br>18.39<br>35.10<br>50.02<br>77.55 | 100.00<br>100.00<br>99.98<br>99.66<br>98.95<br>97.28<br>92.92<br>81.61<br>64.90<br>49.98<br>22.45 |
| 80<br>120<br>170<br>200<br>230<br>PAN                     | 2.5<br>3.0<br>3.5<br>3.75<br>4.0                                  | .180<br>.125<br>.090<br>.075<br>.063                                                 | 52.92<br>54.74<br>54.90<br>54.92<br>55.52<br>56.12                                  | 94.20<br>97.44<br>97.72<br>97.76<br>98.83<br>99.89                                   | 5.80<br>2.56<br>2.28<br>2.24<br>1.17<br>.11                                                       |
| PHI (50                                                   | :24<br>): 1.50<br>): 2.62                                         |                                                                                      | 16): .39<br>75): 1.95                                                               |                                                                                      | 5): .70<br>2): 2.19                                                                               |
|                                                           | LOSS(g)<br>SS:                                                    | : .06<br>341                                                                         |                                                                                     | SILT/CLAY:<br>KURTOSIS:                                                              |                                                                                                   |
| MEAN (                                                    | C METHOPHI): 1 mm): MEAN WA                                       | .29<br>.41                                                                           |                                                                                     | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                              | .35                                                                                               |
| MEAN (                                                    | METHOD<br>PHI): 1<br>mm):                                         | .31                                                                                  |                                                                                     | SORTING:                                                                             | .89                                                                                               |
|                                                           |                                                                   |                                                                                      |                                                                                     |                                                                                      |                                                                                                   |

DATA FILE NAME: VC9659-1.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-59-2 SAMPLE ELEV. (FT. NGVD): -46.5

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 49.14

SAMPLE WEIGHT AFTER WASH (GRAMS): 47.32

| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                  | RETAINED (%)                                                                                                               | PASSED<br>(%)                                                                                                                     |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.79<br>1.24<br>1.72<br>2.57<br>4.39<br>10.21<br>22.70<br>32.42<br>42.45<br>45.99<br>46.97<br>47.17<br>47.23<br>48.16<br>49.08 | .00<br>.00<br>1.61<br>2.52<br>3.50<br>5.23<br>8.93<br>20.78<br>46.19<br>65.97<br>86.39<br>93.59<br>95.58<br>95.58<br>95.58 | 100.00<br>100.00<br>98.39<br>97.48<br>96.50<br>94.77<br>91.07<br>79.22<br>53.81<br>34.03<br>13.61<br>4.42<br>4.01<br>3.89<br>1.99 |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                                            | : 1.10                                                                                                |                                                                                                                                      | (16): .30<br>(75): 1.72                                                                                                              | PHI (25<br>PHI (84                                                                                                         | ): .58                                                                                                                            |
| SIEVE L<br>SKEWNES                                                                                       |                                                                                                       | : .06<br>.058                                                                                                                        |                                                                                                                                      | SILT/CLAY:<br>KURTOSIS:                                                                                                    |                                                                                                                                   |
| MEAN (m                                                                                                  | HI): 1 m):                                                                                            | .12<br>.46                                                                                                                           |                                                                                                                                      | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                                                                    | .47                                                                                                                               |
| •                                                                                                        | METHOD<br>HI): 1<br>m):                                                                               |                                                                                                                                      |                                                                                                                                      | SORTING:                                                                                                                   | 1.01                                                                                                                              |

DATA FILE NAME: VC9659-2.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-60-1

SAMPLE ELEV. (FT. NGVD): -43.5

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 51.96
SAMPLE WEIGHT AFTER WASH (GRAMS): 50.43

| SAMPLE                                                                                            | WEIGHT                                                                                                | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                       | 50.43                                                                                                                     |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                            | RETAINED<br>(%)                                                                                                           | PASSED<br>(%)                                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>.00<br>.16<br>.28<br>.79<br>1.95<br>5.98<br>14.29<br>22.21<br>36.32<br>47.13<br>49.98<br>50.29<br>50.34<br>51.13 | .00<br>.00<br>.31<br>.54<br>1.52<br>3.75<br>11.51<br>27.50<br>42.74<br>69.90<br>90.70<br>96.19<br>96.79<br>96.88<br>98.39 | 100.00<br>100.00<br>100.00<br>99.69<br>99.46<br>98.48<br>96.25<br>88.49<br>72.50<br>57.26<br>30.10<br>9.30<br>3.81<br>3.21<br>3.12<br>1.61 |
| PHI (50                                                                                           | : .08<br>): 1.63                                                                                      |                                                                                                                                      | 51.90<br>                                                                                                                      |                                                                                                                           | .12<br>5): .92<br>4): 2.34                                                                                                                 |
| SIEVE                                                                                             | ): 2.89<br><br>LOSS(g)<br>SS:                                                                         | <br>: .06<br>174                                                                                                                     | ·                                                                                                                              | SILT/CLAY<br>KURTOSIS                                                                                                     |                                                                                                                                            |
| MEAN (                                                                                            | C METHO PHI): 1 mm): MEAN WA                                                                          | .52                                                                                                                                  |                                                                                                                                | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                      | : .32                                                                                                                                      |
| MEAN (                                                                                            | METHOD<br>PHI): 1<br>mm):                                                                             | .51                                                                                                                                  |                                                                                                                                | SORTING                                                                                                                   | .85                                                                                                                                        |
|                                                                                                   |                                                                                                       |                                                                                                                                      |                                                                                                                                |                                                                                                                           |                                                                                                                                            |

DATA FILE NAME: VC9660-1.TAB

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: BCVC60 2

SAMPLE ELEV. (FT. NGVD): -47.5

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.98

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.38

| SIEVE<br>SIZE                                                                | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                                                       | RETAINED<br>(GRAMS)     |                                                                                                           | PASSED<br>(%)                                                                                                     |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180 | 52.26<br>52.30          | .00<br>.56<br>.69<br>1.35<br>2.30<br>12.78<br>28.14<br>42.52<br>68.60<br>89.94<br>96.07<br>96.81<br>96.89 | 100.00<br>100.00<br>99.44<br>99.31<br>98.65<br>97.70<br>87.22<br>71.86<br>57.48<br>31.40<br>10.06<br>3.93<br>3.19 |
| 200<br>230<br>PAN                                                            | 3.75<br>4.0                                                                     | .075<br>.063                                                                                         | 52.31<br>53.12<br>53.92 | 98.41                                                                                                     | 3.09<br>1.59<br>.11                                                                                               |
|                                                                              | :37<br>): 1.14<br>): 2.41                                                       |                                                                                                      | (16): .10<br>(75): 1.65 |                                                                                                           | (25): .40<br>(84): 1.86                                                                                           |
| SIEVE<br>SKEWNE                                                              | LOSS(g)<br>SS:                                                                  | : .06<br>140                                                                                         |                         | SILT/CLA<br>KURTOSI                                                                                       |                                                                                                                   |
| MEAN (                                                                       |                                                                                 |                                                                                                      | ED USING 5              | SORTII<br>MEDIAN (mr<br>5 POINT MET                                                                       | n): .45                                                                                                           |
| MEAN (                                                                       |                                                                                 | .02<br>.49                                                                                           |                         | SORTI                                                                                                     | NG: .89                                                                                                           |
|                                                                              |                                                                                 |                                                                                                      |                         |                                                                                                           |                                                                                                                   |

DATA FILE NAME: VC9660-2.TAB





BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-25

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE                                                                                            | WEIGHT                                                                                        | AFTER WASH                                                                                                           | (GRAMS):                                                                                                                          | 100.00                                                                                                                     |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE                                                                                             | PHI<br>SIZE                                                                                   | MESH SIZE<br>(mm)                                                                                                    | RETAINED<br>(GRAMS)                                                                                                               | RETAINED<br>(%)                                                                                                            | PASSED<br>(%)                                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.00<br>.62<br>.84<br>1.39<br>2.71<br>5.10<br>11.16<br>22.92<br>33.50<br>53.70<br>75.55<br>91.54<br>95.72<br>96.19<br>98.04 | .00<br>.62<br>.84<br>1.39<br>2.71<br>5.10<br>11.16<br>22.92<br>33.50<br>53.70<br>75.55<br>91.54<br>95.72<br>96.19<br>98.04 | 100.00<br>100.00<br>99.38<br>99.16<br>98.61<br>97.29<br>94.90<br>88.84<br>77.08<br>66.50<br>46.30<br>24.45<br>8.46<br>4.28<br>3.81<br>1.96 |
| , ,                                                                                               | :02                                                                                           | •                                                                                                                    | 99.87<br><br>16): .71                                                                                                             | •                                                                                                                          | .13                                                                                                                                        |
| PHI (95                                                                                           | ): 1.91<br>): 3.41                                                                            | PIL (                                                                                                                | 75): 2.49                                                                                                                         | PHI (84                                                                                                                    | 1): 2.76                                                                                                                                   |
| SIEVE :                                                                                           | LOSS(g)                                                                                       | : .13<br>206                                                                                                         |                                                                                                                                   | SILT/CLAY:<br>KURTOSIS                                                                                                     |                                                                                                                                            |
| MEAN (1                                                                                           | C METHOI<br>PHI): 1<br>mm):<br>MEAN WAS                                                       | .75                                                                                                                  | M<br>D USING 5                                                                                                                    | SORTING:<br>(EDIAN (mm):<br>POINT METHO                                                                                    | .27                                                                                                                                        |
| MEAN (                                                                                            | METHOD PHI): 1 mm):                                                                           |                                                                                                                      |                                                                                                                                   | SORTING                                                                                                                    | 1.04                                                                                                                                       |
| בי ענועע                                                                                          | דדים אוא אוי                                                                                  | F. 17006-25 F                                                                                                        | מ גח                                                                                                                              |                                                                                                                            |                                                                                                                                            |

DATA FILE NAME: VC96-25.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

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SAMPLE NO.: VC96-61

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

| SAMPLE                                                                                            | WEIGHT                                                                                  | AFTER WASH     | (GRAMS):                         | 100.00                                                                                                                         |                                                                                                                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                             | MESH SIZE (mm) | RETAINED<br>(GRAMS)              | RETAINED F<br>(%)                                                                                                              | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>1.5<br>2.0<br>2.5<br>3.75<br>4.0 | .090           |                                  | .00<br>2.99<br>5.55<br>9.23<br>17.07<br>28.38<br>47.64<br>69.26<br>80.27<br>88.95<br>93.55<br>96.20<br>96.81<br>96.95<br>98.40 | 100.00<br>100.00<br>97.01<br>94.45<br>90.77<br>82.93<br>71.62<br>52.36<br>30.74<br>19.73<br>11.05<br>6.45<br>3.80<br>3.19<br>3.05<br>1.60 |
| PAN<br><br>PHI(5):<br>PHI(50)<br>PHI(95)                                                          | : .55                                                                                   |                | 99.87<br><br>16):57<br>75): 1.26 |                                                                                                                                |                                                                                                                                           |
| SIEVE I                                                                                           |                                                                                         | : .13<br>.025  |                                  | SILT/CLAY:<br>KURTOSIS:                                                                                                        |                                                                                                                                           |
|                                                                                                   | PHI):                                                                                   | .57<br>.67     |                                  | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                                                                        | .68                                                                                                                                       |
| MOMENT<br>MEAN (I                                                                                 | PHI):                                                                                   | .51            |                                  | SORTING:                                                                                                                       | 1.20                                                                                                                                      |

DATA FILE NAME: VC96-61.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-63

SAMPLE ELEV. (FT. NGVD): SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SIEVE<br>SIZE                                                         | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                                               | RETAINED<br>(GRAMS)                                                                            | RETAINED<br>(%)                                                                                | PASSED<br>(%)                                                                                             |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250 | .00<br>.00<br>.43<br>1.13<br>2.12<br>4.46<br>8.94<br>20.62<br>41.58<br>58.44<br>80.21<br>91.96 | .00<br>.00<br>.43<br>1.13<br>2.12<br>4.46<br>8.94<br>20.62<br>41.58<br>58.44<br>80.21<br>91.96 | 100.00<br>100.00<br>99.57<br>98.87<br>97.88<br>95.54<br>91.06<br>79.38<br>58.42<br>41.56<br>19.79<br>8.04 |
| 120<br>170<br>200<br>230<br>PAN                                       | 3.0<br>3.5<br>3.75<br>4.0                                                       | .125<br>.090<br>.075<br>.063                                                                 | 96.31<br>97.09<br>97.24<br>98.56<br>99.88                                                      | 96.31<br>97.09<br>97.24<br>98.56<br>99.88                                                      | 8.04<br>3.69<br>2.91<br>2.76<br>1.44<br>.12                                                               |
| PHI(5):<br>PHI(50)<br>PHI(95)                                         | : 1.25                                                                          |                                                                                              | 16): .30<br>75): 1.88                                                                          | •                                                                                              | 5): .60<br>4): 2.16                                                                                       |
| SIEVE I                                                               |                                                                                 | : .12<br>048                                                                                 |                                                                                                | SILT/CLAY<br>KURTOSIS                                                                          |                                                                                                           |
| MEAN (n                                                               | PHI): 1 m):                                                                     | .22<br>.43                                                                                   | D USING 5                                                                                      | SORTING<br>MEDIAN (mm)<br>POINT METH                                                           | : .42                                                                                                     |
| MOMENT<br>MEAN (F                                                     | PHI): 1                                                                         | .20                                                                                          |                                                                                                | SORTING                                                                                        | : .98                                                                                                     |

MEAN (mm) : .44

DATA FILE NAME: VC96-63.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-64

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE                                                                                                   | WEIGHT                                                                                         | AFTER WASH           | (GRAMS):                                                                                                                                       | 100.00                                                                        |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                    | MESH SIZE (mm)       | RETAINED<br>(GRAMS)                                                                                                                            | RETAINED<br>(%)                                                               | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.75<br>4.0 | .180<br>.125<br>.090 | .00<br>.00<br>4.31<br>5.95<br>8.37<br>12.79<br>20.18<br>34.47<br>54.75<br>68.65<br>83.10<br>91.58<br>96.76<br>97.78<br>97.91<br>98.90<br>99.88 | 20.18<br>34.47<br>54.75<br>68.65<br>83.10<br>91.58<br>96.76<br>97.78<br>97.91 | 100.00<br>100.00<br>95.69<br>94.05<br>91.63<br>87.21<br>79.82<br>65.53<br>45.25<br>31.35<br>16.90<br>8.42<br>3.24<br>2.22<br>2.09<br>1.10 |
| PHI (50                                                                                                  | : -1.79<br>): .88<br>): 2.83                                                                   |                      | 16):28<br>75): 1.72                                                                                                                            |                                                                               | 5): .17<br>4): 2.05                                                                                                                       |
|                                                                                                          | LOSS(g)<br>SS:                                                                                 | : .12<br>311         |                                                                                                                                                | SILT/CLAY<br>KURTOSIS                                                         |                                                                                                                                           |
| MEAN (                                                                                                   | C METHO<br>PHI):<br>mm):<br>MEAN WA                                                            | .74                  |                                                                                                                                                | SORTING<br>MEDIAN (mm)<br>POINT METH                                          | : .54                                                                                                                                     |
| MEAN (                                                                                                   | METHOD<br>PHI):<br>mm):                                                                        | .81                  |                                                                                                                                                | SORTING                                                                       | : 1.28                                                                                                                                    |

DATA FILE NAME: VC96-64.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-65

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE                                                                                            | WEIGHT                                                                                                | AFTER WASH                                                                                                                   | (GRAMS):                                                                                                                               | 100.00                                                                                                                                 |                                                                                                                                    |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                                                    | RETAINED<br>(%)                                                                                                                        | PASSED<br>(%)                                                                                                                      |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>6.40<br>9.39<br>13.18<br>19.01<br>24.77<br>32.06<br>41.42<br>50.63<br>65.22<br>80.08<br>94.58<br>97.39<br>97.66<br>98.79 | .00<br>.00<br>6.40<br>9.39<br>13.18<br>19.01<br>24.77<br>32.06<br>41.42<br>50.63<br>65.22<br>80.08<br>94.58<br>97.39<br>97.66<br>98.79 | 100.00<br>100.00<br>93.60<br>90.61<br>86.82<br>80.99<br>75.23<br>67.94<br>58.58<br>49.37<br>34.78<br>19.92<br>5.42<br>2.61<br>2.34 |
| PAN<br><br>PHI(5)                                                                                 | :<br>: -2.22<br>): 1.47                                                                               | PHI(                                                                                                                         | 99.89<br><br>16):76<br>75): 2.33                                                                                                       | 99.89<br><br>PHI(2                                                                                                                     | .11<br>5): .02<br>4): 2.64                                                                                                         |
| PHI(95<br><br>SIEVE<br>SKEWNE                                                                     | ): 3.07<br><br>LOSS(g)                                                                                |                                                                                                                              |                                                                                                                                        | SILT/CLAY<br>KURTOSIS                                                                                                                  |                                                                                                                                    |
| MEAN (                                                                                            | C METHO PHI): mm): MEAN WA                                                                            | .84                                                                                                                          |                                                                                                                                        | SORTING<br>(EDIAN (mm)<br>POINT METH                                                                                                   | : .36                                                                                                                              |
| MEAN (                                                                                            | METHOD<br>PHI): 1<br>mm):                                                                             |                                                                                                                              |                                                                                                                                        | SORTING                                                                                                                                | 1.60                                                                                                                               |
| DATA F                                                                                            | ILE NAM                                                                                               | E: VC96-65.                                                                                                                  | TAB                                                                                                                                    |                                                                                                                                        |                                                                                                                                    |

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: VC96-66

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

|                                                                       | ***************************************                                         |                                                                                              |                                                                                               |                                                                                               |                                                                                                            |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                         | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                                               | RETAINED<br>(GRAMS)                                                                           |                                                                                               | PASSED<br>(%)                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.0<br>2.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250 | .00<br>.00<br>.46<br>.81<br>1.29<br>1.97<br>3.16<br>10.52<br>19.64<br>35.35<br>64.41<br>84.19 | .00<br>.00<br>.46<br>.81<br>1.29<br>1.97<br>3.16<br>10.52<br>19.64<br>35.35<br>64.41<br>84.19 | 100.00<br>100.00<br>99.54<br>99.19<br>98.71<br>98.03<br>96.84<br>89.48<br>80.36<br>64.65<br>35.59<br>15.81 |
| 120<br>170<br>200<br>230<br>PAN                                       | 3.0<br>3.5<br>3.75<br>4.0                                                       | .125<br>.090<br>.075<br>.063                                                                 | 94.12<br>96.32<br>96.66<br>98.29<br>99.88                                                     | 94.12<br>96.32<br>96.66<br>98.29<br>99.88                                                     | 5.88<br>3.68<br>3.34<br>1.71<br>.12                                                                        |
| PHI (50)                                                              | : .12<br>): 1.75<br>): 3.20                                                     |                                                                                              | (16): .80<br>(75): 2.27                                                                       |                                                                                               | 5): 1.17<br>4): 2.50                                                                                       |
| SIEVE I                                                               | LOSS(g)<br>SS:                                                                  | : .12<br>106                                                                                 |                                                                                               | SILT/CLAY:<br>KURTOSIS:                                                                       |                                                                                                            |
| MEAN (1                                                               | C METHO<br>PHI): 1<br>mm) :<br>MEAN WA                                          | .67<br>.31                                                                                   |                                                                                               | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                                       | .30                                                                                                        |
| MEAN (                                                                | METHOD<br>PHI): 1<br>mm) :                                                      | .65                                                                                          |                                                                                               | SORTING                                                                                       | .92                                                                                                        |

DATA FILE NAME: VC96-66.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

\_\_\_\_\_\_

SAMPLE NO.: VC96-67

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP-SM

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SIEVE<br>SIZE                                            | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                 | RETAINED (%)                                                                                                  | PASSED (%)                                                                                                                                  |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 5/8 5/16 5 7 10 14 18 25 35 45 60 80 120 170 200 230 PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>2.29<br>2.38<br>3.38<br>5.01<br>6.92<br>10.13<br>15.71<br>21.86<br>37.58<br>63.04<br>87.82<br>93.27<br>94.03<br>97.05 | 2.38<br>3.38<br>5.01<br>6.92<br>10.13<br>15.71<br>21.86<br>37.58<br>63.04<br>87.82<br>93.27<br>94.03<br>97.05 | 100.00<br>100.00<br>97.71<br>97.62<br>96.62<br>94.99<br>93.08<br>89.87<br>84.29<br>78.14<br>62.42<br>36.96<br>12.18<br>6.73<br>5.97<br>2.95 |
| PHI(5):<br>PHI(50)<br>PHI(95)                            | : 2.24                                                                                        |                                                                                                                                      | (16): 1.02<br>(75): 2.74                                                                                                            | •                                                                                                             | 5): 1.60<br>4): 2.92                                                                                                                        |
| SIEVE I                                                  |                                                                                               | : .06<br>611                                                                                                                         |                                                                                                                                     | SILT/CLAY<br>KURTOSIS                                                                                         |                                                                                                                                             |
| MEAN (n                                                  | PHI): 1 m):                                                                                   | .90<br>.27                                                                                                                           |                                                                                                                                     | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                          | : .21                                                                                                                                       |
|                                                          | PHI): 1                                                                                       | .95<br>.26                                                                                                                           |                                                                                                                                     | SORTING                                                                                                       | 1.20                                                                                                                                        |
| DATA FI                                                  | TE NAM                                                                                        | E: VC96-67                                                                                                                           | .TAB                                                                                                                                |                                                                                                               |                                                                                                                                             |

DATA FILE NAME: VC96-67.TAB

## INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD CO. VIBRACORES BA VII 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-25-1

SAMPLE ELEV. (FT. NGVD): -64.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 50.60

SAMPLE WEIGHT AFTER WASH (GRAMS): 49.54

| SAMPLE                                                                              | WEIGHT                                                                                        | AFTER WASH     | (GRAMS):                                                                                                       | 49.54                                |                                                                                                                            |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                                   | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                            | RETAINED<br>(%)                      | PASSED<br>(%)                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5<br>3.0 | .090           | .00<br>.00<br>.51<br>.56<br>1.01<br>1.85<br>3.47<br>7.63<br>15.25<br>21.63<br>33.07<br>43.40<br>48.36<br>49.37 | 97.57                                | 100.00<br>100.00<br>98.99<br>98.89<br>98.00<br>96.34<br>93.14<br>84.92<br>69.86<br>57.25<br>34.64<br>14.23<br>4.43<br>2.43 |
| 200<br>230<br>PAN                                                                   | 3.75<br>4.0                                                                                   | .075<br>.063   | 49.46<br>50.00<br>50.54                                                                                        | 98.81                                | 2.25<br>1.19<br>.12                                                                                                        |
|                                                                                     | :29<br>): 1.66<br>): 2.97                                                                     | PHI (          | 16): .53<br>75): 2.24                                                                                          |                                      | 5): .83<br>4): 2.46                                                                                                        |
| SIEVE                                                                               | LOSS(g)<br>SS:                                                                                | : .06<br>332   |                                                                                                                | SILT/CLAY<br>KURTOSIS                |                                                                                                                            |
| MEAN (                                                                              | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                         | .47            |                                                                                                                | SORTING<br>MEDIAN (mm)<br>POINT METH | : .32                                                                                                                      |
| MEAN (                                                                              | METHOD<br>PHI): 1<br>mm) :                                                                    | .49            | ·                                                                                                              | SORTING                              | : 1.03                                                                                                                     |
| DATA F                                                                              | ILE NAM                                                                                       | E: VC9625-1    | .TAB                                                                                                           |                                      |                                                                                                                            |

BROWARD CO. VIBRACORES BA VII 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-25-2

SAMPLE ELEV. (FT. NGVD): -68.0 SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 54.25

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.64

| SAMPLE                                                                                                   | WEIGHT                                                                                        | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                | 52.64                                                                                         |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                     | RETAINED<br>(%)                                                                               | PASSED<br>(%)                                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.06<br>.12<br>.24<br>.73<br>1.97<br>5.56<br>13.41<br>20.80<br>34.37<br>45.86<br>51.31<br>52.43<br>52.55<br>53.37 | 1.35<br>3.63<br>10.25<br>24.72<br>38.34<br>63.35<br>84.53<br>94.58<br>96.65<br>96.87<br>98.37 | 100.00<br>100.00<br>99.89<br>99.78<br>99.56<br>98.65<br>96.37<br>89.75<br>75.28<br>61.66<br>36.65<br>15.47<br>5.42<br>3.35<br>3.13<br>1.63 |
|                                                                                                          |                                                                                               |                                                                                                                                      | (16): .70<br>(75): 2.27                                                                                                 | PHI(2                                                                                         | .13<br>5): 1.01<br>4): 2.49                                                                                                                |
| SIEVE SKEWNE                                                                                             | <br>LOSS(g)<br>SS:                                                                            | : .07<br>146                                                                                                                         |                                                                                                                         | SILT/CLAY<br>KURTOSIS                                                                         |                                                                                                                                            |
| MEAN (                                                                                                   | C METHO<br>PHI): 1<br>mm) :<br>MEAN WA                                                        | .62<br>.32                                                                                                                           |                                                                                                                         | SORTING<br>MEDIAN (mm)<br>POINT METH                                                          | : .30                                                                                                                                      |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm):                                                                     |                                                                                                                                      |                                                                                                                         | SORTING                                                                                       | : .90                                                                                                                                      |
|                                                                                                          |                                                                                               |                                                                                                                                      |                                                                                                                         |                                                                                               |                                                                                                                                            |

DATA FILE NAME: VC9625-2.TAB

BROWARD CO. VIBRACORES BA VII 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-25-3

SAMPLE ELEV. (FT. NGVD): -71.5 SAMPLE DEPTH (FT.): -8.5

SAMPLE DEPTH (FT.): -8.5 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP-SM

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 48.35

SAMPLE WEIGHT AFTER WASH (GRAMS): 45.51

|                                                                                            | ~~~~~                                                                                          |                                                                                                                      |                                                                                                               |                                                                                     |                                                                                                                                     |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                                       | RETAINED<br>(GRAMS)                                                                                           | RETAINED (%)                                                                        | PASSED (%)                                                                                                                          |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.40<br>.63<br>.91<br>1.62<br>2.44<br>4.02<br>6.57<br>9.00<br>14.88<br>26.52<br>40.60<br>44.86<br>45.37 | 3.35<br>5.05<br>8.31<br>13.59<br>18.61<br>30.78<br>54.85<br>83.97<br>92.78<br>93.84 | 100.00<br>100.00<br>99.17<br>98.70<br>98.12<br>96.65<br>94.95<br>91.69<br>86.41<br>81.39<br>69.22<br>45.15<br>16.03<br>7.22<br>6.16 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063                                                                                                                 | 46.85<br>48.28                                                                                                |                                                                                     | 3.10<br>.14                                                                                                                         |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                              | : 2.40                                                                                         |                                                                                                                      | (16): 1.24<br>(75): 2.85                                                                                      |                                                                                     | 5): 1.76<br>4): 3.00                                                                                                                |
| SIEVE I                                                                                    | COSS(g)                                                                                        | : .07<br>549                                                                                                         |                                                                                                               | SILT/CLAY<br>KURTOSIS                                                               |                                                                                                                                     |
|                                                                                            | PHI): 2                                                                                        | .09<br>.23                                                                                                           |                                                                                                               | SORTING<br>MEDIAN (mm)<br>POINT METH                                                | : .19                                                                                                                               |
|                                                                                            | METHOD<br>PHI): 2<br>nm):                                                                      |                                                                                                                      |                                                                                                               | SORTING                                                                             | : 1.09                                                                                                                              |
|                                                                                            |                                                                                                |                                                                                                                      |                                                                                                               |                                                                                     |                                                                                                                                     |

DATA FILE NAME: VC9625-3.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-61-1

SAMPLE ELEV. (FT. NGVD): -59.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 83.71
SAMPLE WEIGHT AFTER WASH (GRAMS): 81.68

| SAMPLE                                                                              | WEIGHT                                                                                 | AFTER W              | ASH (                    | GRAMS)                                                                           | :                                                              | 81.6              | 8                                                        |                                         |                                                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------|--------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------|----------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                            | MESH SI<br>(mm)      | ZE F                     | RETAINE<br>(GRAMS                                                                |                                                                | RETAI:            |                                                          | PASS<br>(9                              | SED                                                                                                  |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5 | .5<br>.3<br>.2<br>.1 | 000<br>000<br>000<br>000 | 3.0<br>3.0<br>5.4<br>8.3<br>14.4<br>23.9<br>40.3<br>58.3<br>67.1<br>74.4<br>80.8 | 00<br>01<br>47<br>33<br>44<br>97<br>35<br>31<br>12<br>49<br>45 |                   | 53<br>95<br>25<br>63<br>20<br>66<br>18<br>99<br>72<br>54 | 100<br>96<br>96<br>82<br>75<br>30<br>19 | 0.00<br>0.00<br>0.40<br>0.05<br>2.75<br>1.37<br>1.80<br>0.34<br>9.82<br>1.01<br>6.28<br>3.46<br>2.74 |
| 200<br>230<br>PAN                                                                   | 3.75<br>4.0                                                                            | . 0                  | 075<br>063               | 81.5<br>82.5<br>83.6                                                             | 54<br>57                                                       | 97.<br>98.<br>99. | 41<br>63                                                 |                                         | 2.59<br>1.37<br>.13                                                                                  |
| PHI(50                                                                              | : -1.76<br>): .54<br>): 2.73                                                           |                      |                          | 5):5<br>5): 1.2                                                                  |                                                                |                   | HI(25<br>HI(84                                           |                                         |                                                                                                      |
| SIEVE :                                                                             | LOSS(g)<br>SS:                                                                         | : .11<br>051         |                          |                                                                                  |                                                                |                   | CLAY:                                                    |                                         | .59%                                                                                                 |
| MEAN (                                                                              | C METHO<br>PHI):<br>mm):<br>MEAN WA                                                    | .53                  | LATED                    | USING                                                                            |                                                                | NAIC              | TING:<br>(mm):<br>METHO                                  |                                         | 1.15                                                                                                 |
| MEAN (                                                                              |                                                                                        | .50<br>.71           |                          |                                                                                  |                                                                | SOR               | TING:                                                    |                                         | 1.22                                                                                                 |
|                                                                                     |                                                                                        |                      |                          |                                                                                  |                                                                |                   |                                                          |                                         |                                                                                                      |

DATA FILE NAME: VC9661-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-61-2

SAMPLE ELEV. (FT. NGVD): -64.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 72.95
SAMPLE WEIGHT AFTER WASH (GRAMS): 70.53

| SIEVE PHI MESH SIZE RETAINED (GRAMS) (%) (%)  5/8 -4.0 16.000 .00 .00 100.00  5/16 -3.0 8.000 .00 .00 100.00  5 -2.0 4.000 1.73 2.37 97.63  7 -1.5 2.800 3.33 4.56 95.44  10 -1.0 2.000 6.20 8.50 91.50  14 -0.5 1.400 12.32 16.89 83.11  18 0.0 1.000 20.52 28.13 71.87  25 0.5 .710 34.34 47.07 52.93  35 1.0 .500 50.23 68.86 31.14  45 1.5 .355 58.62 80.36 19.64  60 2.0 .250 64.85 88.90 11.10  80 2.5 .180 68.12 93.38 6.62  120 3.0 .125 69.93 95.86 4.14  170 3.5 .090 70.29 96.35 3.65  200 3.75 .075 70.39 96.49 3.51  230 4.0 .063 71.61 98.16 1.84  PAN 72.85 99.86 .14  PHI(5): -1.44 PHI(16):55 PHI(25):14  PHI(5): -1.44 PHI(16):55 PHI(25):14 | DAMELLE                                                  | WEIGHI                                                                  | ATTEN WADII                                                                | (Ciditib).                                                                        | , 0.55                                                                            |                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 5/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                                                                         |                                                                            |                                                                                   |                                                                                   |                                                                                         |
| 120 3.0 .125 69.93 95.86 4.14 170 3.5 .090 70.29 96.35 3.65 200 3.75 .075 70.39 96.49 3.51 230 4.0 .063 71.61 98.16 1.84 PAN 72.85 99.86 .14  PHI(5): -1.44 PHI(16):55 PHI(25):14 PHI(50): .57 PHI(75): 1.27 PHI(84): 1.71 PHI(95): 2.83  SIEVE LOSS(g): .10 SILT/CLAY: 3.51% SKEWNESS: .109 KURTOSIS: 1.245  GRAPHIC METHOD MEAN (PHI): .62 SORTING: 1.13 MEAN (mm): .65 MEDIAN (mm): .67 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): .53 SORTING: 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60 | -3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0 | 8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355 | .00<br>1.73<br>3.33<br>6.20<br>12.32<br>20.52<br>34.34<br>50.23<br>58.62<br>64.85 | .00<br>2.37<br>4.56<br>8.50<br>16.89<br>28.13<br>47.07<br>68.86<br>80.36<br>88.90 | 100.00<br>97.63<br>95.44<br>91.50<br>83.11<br>71.87<br>52.93<br>31.14<br>19.64<br>11.10 |
| PHI(50): .57 PHI(75): 1.27 PHI(84): 1.71 PHI(95): 2.83  SIEVE LOSS(g): .10 SILT/CLAY: 3.51% SKEWNESS: .109 KURTOSIS: 1.245  GRAPHIC METHOD MEAN (PHI): .62 SORTING: 1.13 MEAN (mm): .65 MEDIAN (mm): .67 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): .53 SORTING: 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 120<br>170<br>200<br>230                                 | 3.0<br>3.5<br>3.75                                                      | .125<br>.090<br>.075                                                       | 69.93<br>70.29<br>70.39<br>71.61                                                  | 95.86<br>96.35<br>96.49<br>98.16                                                  | 4.14<br>3.65<br>3.51<br>1.84                                                            |
| SKEWNESS: .109 KURTOSIS: 1.245  GRAPHIC METHOD  MEAN (PHI): .62 SORTING: 1.13  MEAN (mm): .65 MEDIAN (mm): .67  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): .53 SORTING: 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PHI (50                                                  | ): .57                                                                  | PHI (                                                                      |                                                                                   |                                                                                   |                                                                                         |
| MEAN (PHI): .62 SORTING: 1.13 MEAN (mm): .65 MEDIAN (mm): .67 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): .53 SORTING: 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                          |                                                                         |                                                                            |                                                                                   | •                                                                                 |                                                                                         |
| MEAN (PHI): .53 SORTING: 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MEAN (                                                   | PHI): mm):                                                              | .62<br>.65                                                                 |                                                                                   | MEDIAN (mm                                                                        | .67                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MEAN (                                                   | PHI):                                                                   | .53                                                                        |                                                                                   | SORTIN                                                                            | G: 1.18                                                                                 |

DATA FILE NAME: VC9661-2.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-63-1

SAMPLE ELEV. (FT. NGVD): -62.5

SAMPLE DEPTH (FT.): -1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 60.75

|                                                                                                          |                                                                                                | AFTER WASH                                                                                                                           |                                                                                                                                              |                                        |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                          | RETAINED (%)                           | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.06<br>.38<br>1.23<br>2.95<br>6.07<br>13.54<br>26.83<br>37.15<br>49.81<br>56.14<br>58.41<br>58.41<br>58.41<br>58.94<br>59.79<br>60.65 |                                        | 100.00<br>100.00<br>99.90<br>99.37<br>97.98<br>95.14<br>90.01<br>77.71<br>55.84<br>38.85<br>18.01<br>7.59<br>3.85<br>3.13<br>2.98<br>1.57 |
| PHI (50)                                                                                                 | :49<br>): 1.17<br>): 2.85                                                                      |                                                                                                                                      | 16): .24<br>75): 1.83                                                                                                                        |                                        | 5): .56                                                                                                                                   |
| SIEVE I                                                                                                  | LOSS(g)                                                                                        | .10                                                                                                                                  |                                                                                                                                              | SILT/CLAY:<br>KURTOSIS:                |                                                                                                                                           |
| MEAN (I                                                                                                  | C METHOPHI): 1 mm): MEAN WA                                                                    | .17<br>.44                                                                                                                           |                                                                                                                                              | SORTING:<br>EDIAN (mm):<br>POINT METHO | .44                                                                                                                                       |
| MEAN ()                                                                                                  | METHOD<br>PHI): 1<br>mm) :                                                                     |                                                                                                                                      |                                                                                                                                              | SORTING:                               | .97                                                                                                                                       |

DATA FILE NAME: VC9663-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

\_\_\_\_\_\_

SAMPLE NO.: VC96-63-2

SAMPLE ELEV. (FT. NGVD): -66.5

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 48.50

SAMPLE WEIGHT AFTER WASH (GRAMS): 47.09

| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE (mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
|---------------|-------------|----------------|---------------------|-----------------|---------------|
| 5/8           | -4.0        | 16.000         | .00                 | .00             | 100.00        |
| 5/16          | -3.0        | 8.000          | .00                 |                 | 100.00        |
| 5             | -2.0        | 4.000          | .11                 | .23             | 99.77         |
| 7             | -1.5        | 2.800          | .43                 | .89             | 99.11         |
| 10            | -1.0        | 2.000          | .70                 | 1.44            | 98.56         |
| 14            | -0.5        | 1.400          | 1.52                | 3.13            | 96.87         |
| 18            | 0.0         | 1.000          | 3.03                | 6.25            | 93.75         |
| 25            | 0.5         | .710           | 7.71                | 15.90           | 84.10         |
| 35            | 1.0         | .500           | 17.04               | 35.13           | 64.87         |
| 45            | 1.5         | .355           | 25.32               | 52.21           | 47.79         |
| 60            | 2.0         | .250           | 37.22               | 76.74           | 23.26         |
| .80           | 2.5         | .180           | 44.04               | 90.80           | 9.20          |
| 120           | 3.0         | .125           | 46.50               |                 | 4.12          |
| 170           | 3.5         | .090           | 46.94               | 96.78           | 3.22          |
| 200           | 3.75        | .075           | 47.02               | 96.95           | 3.05          |
| 230           | 4.0         | .063           | 47.74               | 98.42           | 1.58          |
| PAN           |             |                | 48.45               | 99.90           | .10           |
| PHI(5):       | 20          | PHI            | (16): .50           | PHI(2           | 5): .74       |
| PHI (50)      |             |                | (75): 1.96          | •               | 4): 2.26      |
| PHI (95)      |             |                | •                   | •               | •             |
| SIEVE I       | 0SS(a)      | : .05          |                     | SILT/CLAY       | : 3.05%       |
| SKEWNES       |             | 090            |                     | KURTOSIS        |               |
| GRAPHIC       | т метно     |                |                     |                 |               |
|               | PHI): 1     |                |                     | SORTING         | : .88         |
|               | •           | .38            |                     | MEDIAN (mm)     |               |
| •             |             |                |                     | POINT METH      |               |
|               |             |                |                     |                 |               |
| MOMENT        | METHOD      |                |                     |                 |               |
|               | PHI): 1     |                |                     | SORTING         | : .94         |
| MEAN (n       |             | .40            |                     |                 |               |
|               |             |                |                     |                 |               |
| DATA FI       | T.F. NAM    | E: VC9663-     | 2.TAB               |                 |               |

DATA FILE NAME: VC9663-2.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-63-3

SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -10.5 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_\_

USCS DESCRIPTION: SP

|                                                                                                          |                                                                                                      |                                                                                                              | MS): 52.1<br>SH (GRAMS):                                                                        |                                                                                                                               |                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                          | MESH SIZI                                                                                                    |                                                                                                 |                                                                                                                               | PASSED<br>(%)                                                                                                                            |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>1.400<br>1.000<br>.71<br>.500<br>.35<br>.25<br>.18<br>.12<br>.09<br>.07 | 0 .00 0 .81 0 1.39 0 2.17 0 3.84 0 7.54 0 15.96 0 28.51 5 36.88 0 45.18 0 49.23 5 51.00 0 51.30 | .00<br>1.55<br>2.66<br>4.16<br>7.36<br>14.45<br>30.59<br>54.65<br>70.69<br>86.60<br>94.36<br>97.76<br>98.33<br>98.39<br>99.16 | 100.00<br>100.00<br>98.45<br>97.34<br>95.84<br>92.64<br>85.55<br>69.41<br>45.35<br>29.31<br>13.40<br>5.64<br>2.24<br>1.67<br>1.61<br>.84 |
| PHI (50                                                                                                  | :87<br>): .90<br>): 2.59                                                                             |                                                                                                              | I(16): .05<br>I(75): 1.64                                                                       | •                                                                                                                             | 25): .33<br>84): 1.92                                                                                                                    |
| SIEVE :                                                                                                  |                                                                                                      | : .04<br>044                                                                                                 |                                                                                                 | SILT/CLA<br>KURTOSI                                                                                                           |                                                                                                                                          |
| MEAN (                                                                                                   | C METHO<br>PHI):<br>mm):<br>MEAN WA                                                                  | .92<br>.53                                                                                                   | TED USING 5                                                                                     | SORTIN<br>MEDIAN (mm<br>POINT MET                                                                                             | .): .53                                                                                                                                  |
| MEAN (                                                                                                   |                                                                                                      | .91<br>.53                                                                                                   |                                                                                                 | SORTIN                                                                                                                        | G: 1.04                                                                                                                                  |

DATA FILE NAME: VC9663-3.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-64-1

SAMPLE ELEV. (FT. NGVD): -62.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 62.63

SAMPLE WEIGHT AFTER WASH (GRAMS): 61.39

| SAMPLE                                                                                            | WEIGHT                                                                                        | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                    | 61.39                                                                                                                                |                                                                                                                                   |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                         | RETAINED<br>(%)                                                                                                                      | PASSED<br>(%)                                                                                                                     |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.85<br>1.42<br>2.61<br>4.78<br>8.89<br>17.85<br>31.22<br>40.79<br>50.83<br>56.81<br>60.48<br>61.21<br>61.30<br>61.93 | .00<br>.00<br>1.36<br>2.27<br>4.17<br>7.63<br>14.19<br>28.50<br>49.85<br>65.13<br>81.16<br>90.71<br>96.57<br>97.73<br>97.88<br>98.88 | 100.00<br>100.00<br>98.64<br>97.73<br>95.83<br>92.37<br>85.81<br>71.50<br>50.15<br>34.87<br>18.84<br>9.29<br>3.43<br>2.27<br>2.12 |
| PHI (50                                                                                           | :88<br>): 1.00<br>): 2.87                                                                     |                                                                                                                                      | 62.56<br>                                                                                                                   | •                                                                                                                                    | .11<br>5): .38<br>4): 2.15                                                                                                        |
| SIEVE<br>SKEWNE                                                                                   | LOSS(g)<br>SS:                                                                                | : .07<br>011                                                                                                                         |                                                                                                                             | SILT/CLAY<br>KURTOSIS                                                                                                                |                                                                                                                                   |
| MEAN (                                                                                            | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                         | .04<br>.49                                                                                                                           |                                                                                                                             | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                                 | : .50                                                                                                                             |
| MEAN (                                                                                            | METHOD<br>PHI): 1<br>mm):                                                                     |                                                                                                                                      |                                                                                                                             | SORTING                                                                                                                              | : 1.11<br>                                                                                                                        |

DATA FILE NAME: VC9664-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-64-2

SAMPLE ELEV. (FT. NGVD): -65.0

SAMPLE DEPTH (FT.): -4.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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|                                                                                                          |                                                                                                              | GHT (GRAM<br>AFTER WAS                                                                                               |                                                                                                              |                                                                                                                                                 |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                                  | MESH SIZE (mm)                                                                                                       | RETAINEI<br>(GRAMS)                                                                                          |                                                                                                                                                 | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>4.36<br>5.89<br>7.71<br>11.11<br>16.43<br>25.93<br>38.83<br>47.30<br>56.10<br>64.33<br>64.94<br>65.03 | 0 .00<br>6.57<br>8.81<br>11.61<br>16.73<br>3 24.75<br>1 39.03<br>58.49<br>71.34<br>6 84.59<br>4 92.24<br>9 92.24<br>9 97.82<br>97.94<br>8 98.92 | 100.00<br>100.00<br>93.43<br>91.19<br>88.39<br>83.27<br>75.25<br>60.97<br>41.51<br>28.66<br>15.41<br>7.76<br>3.10<br>2.18<br>2.06<br>1.08 |
| PHI(5):<br>PHI(50):<br>PHI(95):                                                                          | .78                                                                                                          |                                                                                                                      | (16):5°<br>(75): 1.6°                                                                                        |                                                                                                                                                 | 25): .01<br>84): 1.98                                                                                                                     |
| SIEVE LO                                                                                                 |                                                                                                              | : .08<br>395                                                                                                         |                                                                                                              | SILT/CLA<br>KURTOSI                                                                                                                             |                                                                                                                                           |
|                                                                                                          | HI):<br>n):                                                                                                  | .55<br>.68                                                                                                           | ED USING                                                                                                     | SORTIN<br>MEDIAN (mm<br>5 POINT MET                                                                                                             | ): .58                                                                                                                                    |
|                                                                                                          | HI):                                                                                                         | .66<br>.63                                                                                                           |                                                                                                              | SORTIN                                                                                                                                          | G: 1.37                                                                                                                                   |

DATA FILE NAME: VC9664-2.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-64-3

SAMPLE ELEV. (FT. NGVD): -68.5

SAMPLE DEPTH (FT.): -7.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 69.34
SAMPLE WEIGHT AFTER WASH (GRAMS): 68.01

| SAMPLE                                              | WEIGHT                                                     | AFTER WASH                                                           | (GRAMS):                                                              | 68.01                                                       |                                                                                 |
|-----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                   | RETAINED<br>(%)                                             | PASSED<br>(%)                                                                   |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>3.10<br>3.83<br>5.78<br>9.16<br>14.30<br>24.22<br>38.19 | 5.52<br>8.34<br>13.21<br>20.62<br>34.93                     | 100.00<br>100.00<br>95.53<br>94.48<br>91.66<br>86.79<br>79.38<br>65.07<br>44.92 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0             | .355<br>.250<br>.180<br>.125<br>.090                                 | 47.71<br>57.66<br>63.54<br>67.10<br>67.80<br>67.89<br>68.57           | 68.81<br>83.16<br>91.64<br>96.77<br>97.78<br>97.91<br>98.90 | 31.19<br>16.84<br>8.36<br>3.23<br>2.22<br>2.09<br>1.10                          |
| PHI (50                                             | : -1.75<br>): .87<br>): 2.83                               |                                                                      | (16):31<br>(75): 1.72                                                 | •                                                           | 25): .15<br>34): 2.05                                                           |
| SIEVE<br>SKEWNE                                     | LOSS(g)<br>SS:                                             | : .09<br>283                                                         |                                                                       | SILT/CLAY KURTOSIS                                          |                                                                                 |
| MEAN (                                              | C METHO<br>PHI):<br>mm):<br>MEAN WA                        | .74<br>.60                                                           |                                                                       | SORTING<br>MEDIAN (mm)<br>POINT METR                        | .55                                                                             |
| MEAN (                                              |                                                            | .81<br>.57                                                           |                                                                       | SORTING                                                     | G: 1.28                                                                         |
| בו אנותא בו                                         | אגא ידדי                                                   | F. VC9661-3                                                          | בו גיות פ                                                             |                                                             |                                                                                 |

DATA FILE NAME: VC9664-3.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-65-1

SAMPLE ELEV. (FT. NGVD): -66.0 SAMPLE DEPTH (FT.): -1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 54.03

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.66

| SAMPLE                                                                                                                         | WEIGHT                                                                                        | AFTER WASH                                                                                                                   | (GRAMS):                                                                                                                     | 52.66                                                                                                                  |                                                                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| SIEVE<br>SIZE                                                                                                                  | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                                          | RETAINED<br>(%)                                                                                                        | PASSED<br>(%)                                                                                                                       |  |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230                              | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>.00<br>.06<br>.13<br>.29<br>.51<br>1.42<br>5.53<br>12.59<br>25.31<br>38.05<br>50.15<br>52.36<br>52.56<br>53.28 | .00<br>.00<br>.11<br>.24<br>.54<br>.94<br>2.63<br>10.24<br>23.30<br>46.84<br>70.42<br>92.82<br>96.91<br>97.28<br>98.62 | 100.00<br>100.00<br>100.00<br>99.89<br>99.76<br>99.46<br>99.06<br>97.37<br>89.76<br>76.70<br>53.16<br>29.58<br>7.18<br>3.09<br>2.72 |  |
| PAN                                                                                                                            |                                                                                               |                                                                                                                              | 53.99                                                                                                                        | 99.93                                                                                                                  | .07                                                                                                                                 |  |
| PHI(5)<br>PHI(50<br>PHI(95                                                                                                     |                                                                                               |                                                                                                                              | 16): 1.22<br>75): 2.60                                                                                                       |                                                                                                                        | ): 1.54<br>): 2.80                                                                                                                  |  |
| SIEVE :                                                                                                                        | LOSS(g)<br>SS:                                                                                | : .04<br>134                                                                                                                 |                                                                                                                              | SILT/CLAY:<br>KURTOSIS:                                                                                                |                                                                                                                                     |  |
| GRAPHIC METHOD  MEAN (PHI): 2.00 SORTING: .79  MEAN (mm): .25 MEDIAN (mm): .24  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD |                                                                                               |                                                                                                                              |                                                                                                                              |                                                                                                                        |                                                                                                                                     |  |
| MEAN (                                                                                                                         | METHOD<br>PHI): 2<br>mm):                                                                     |                                                                                                                              |                                                                                                                              | sorting:                                                                                                               | .78                                                                                                                                 |  |
|                                                                                                                                |                                                                                               |                                                                                                                              |                                                                                                                              |                                                                                                                        |                                                                                                                                     |  |

DATA FILE NAME: VC9665-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-65-2

SAMPLE ELEV. (FT. NGVD): -68.0

SAMPLE DEPTH (FT.): -3.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 44.72

SAMPLE WEIGHT AFTER WASH (GRAMS): 43.79

| SAMPLE        | WEIGHI      | APIER WADII    | (GRAMD).         | 43.73           |                |
|---------------|-------------|----------------|------------------|-----------------|----------------|
| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED<br>(%) | PASSED (%)     |
| 5/8           | -4.0        | 16.000         | .00              |                 | 100.00         |
| 5/16          | -3.0        | 8.000          | .00              |                 | 100.00         |
| 5             | -2.0        | 4.000          | 4.02             |                 | 91.01          |
| 7             | -1.5        | 2.800          | 5.27<br>7.16     |                 | 88.22          |
| 10            | -1.0        | 2.000          |                  |                 | 83.99          |
| 14            | -0.5<br>0.0 | 1.400<br>1.000 | 10.46<br>14.09   |                 | 76.61          |
| 18            | 0.0         | .710           | 19.09            |                 | 68.49          |
| 25<br>35      | 1.0         |                | 23.99            |                 | 57.51<br>46.36 |
| 45            | 1.5         |                | 27.45            |                 | 38.62          |
| 60            | 2.0         |                | 32.31            |                 | 27.75          |
| 80            | 2.5         |                | 37.30            |                 | 16.59          |
| 120           | 3.0         |                | 42.49            |                 | 4.99           |
| 170           | 3.5         |                | 43.56            |                 | 2.59           |
| 200           | 3.75        |                | 43.67            |                 | 2.35           |
| 230           | 4.0         |                | 44.17            |                 | 1.24           |
| PAN           | 4.0         | .003           | 44.64            |                 | .18            |
|               |             |                |                  |                 | •              |
| PHI(5)        | : -2.44     | PHI(           | 16):-1.00        | PHI(2           | 25):40         |
|               | ): .84      |                | 75): 2.12        |                 | 34): 2.53      |
|               | ): 3.00     |                | •                | •               | •              |
|               |             |                |                  |                 |                |
|               | LOSS(g)     |                |                  | SILT/CLAY       |                |
| SKEWNE        | ss:         | 317            |                  | KURTOSIS        | 8: .884        |
|               |             |                |                  |                 |                |
|               | C METHO     |                |                  |                 |                |
|               | •           | .58            |                  | SORTING         |                |
|               | mm):        |                |                  | MEDIAN (mm)     |                |
| NOTE:         | MEAN WA     | S CALCULATE    | D USING 5        | POINT METE      | HOD            |
| MOMENTO       | METHOD      |                |                  |                 |                |
|               |             | .70            |                  | SORTING         | 1 65           |
| •             | mm) :       |                |                  | DOKITNO         | 1.65           |
| (.            |             | · VI           | ~                |                 |                |
| בי אומא בי    | TT TO NIN M | T. 1700665-2   | m x To           |                 |                |

DATA FILE NAME: VC9665-2.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

**SAMPLE NO.: VC96-65-3** 

SAMPLE ELEV. (FT. NGVD): -70.0 SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.46

SAMPLE WEIGHT AFTER WASH (GRAMS): 70.15

| SAMPLE           | WEIGHT                       | AFTER      | WASH                 | (GRAMS):                       | /0.1       | .5           |                           |
|------------------|------------------------------|------------|----------------------|--------------------------------|------------|--------------|---------------------------|
| SIEVE<br>SIZE    | PHI<br>SIZE                  | MESH S     |                      | RETAINED<br>(GRAMS)            | RETAI      |              | PASSED<br>(%)             |
| 5/8<br>5/16<br>5 | -4.0<br>-3.0<br>-2.0         | 8.<br>4.   | .000<br>.000         | .00<br>.00<br>7.26             | 10.        |              | 100.00<br>100.00<br>89.84 |
| 7<br>10          | -1.5<br>-1.0                 | 2.         | .800                 | 11.48<br>16.39                 | 22.        | 94           | 83.94<br>77.06            |
| 14<br>18<br>25   | -0.5<br>0.0<br>0.5           | 1.         | .400<br>.000<br>.710 | 23.32<br>29.57<br>36.20        | 41.        | .38          | 67.37<br>58.62<br>49.34   |
| 35<br>45         | 1.0<br>1.5                   |            | .500<br>.355         | 42.91<br>47.83                 | 60.<br>66. | . 05<br>. 93 | 39.95<br>33.07            |
| 60<br>80<br>120  | 2.0<br>2.5<br>3.0            | •          | .250<br>.180<br>.125 | 54.57<br>61.64<br>68.50        | 86.        | 26           | 23.64<br>13.74<br>4.14    |
| 170<br>200       | 3.5<br>3.75                  | •          | .090<br>.075         | 69.91<br>70.05                 | 97.<br>98. | . 83<br>. 03 | 2.17<br>1.97              |
| 230<br>PAN       | 4.0                          |            | .063<br>             | 70.74<br>71.40                 |            |              | 1.01                      |
| PHI (50          | : -2.51<br>): .46<br>): 2.96 |            |                      | 16):-1.51<br>75): 1.93         |            | •            | ):89<br>): 2.39           |
| SIEVE<br>SKEWNE  | LOSS(g)<br>SS:               | 124        |                      | TO SEE SEE SEE SEE SEE SEE SEE |            | CLAY:        | 1.97%<br>.794             |
| MEAN (           |                              | .36<br>.78 | ULATE:               | D USING 5                      | MEDIAN     |              | 1.95<br>.72<br>D          |
| MEAN (           | •                            | .41<br>.75 |                      |                                | SOI        | RTING:       | 1.71                      |
| D.1              |                              | T. 1700    |                      | m 2 D                          |            |              |                           |

DATA FILE NAME: VC9665-3.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-66-1

SAMPLE ELEV. (FT. NGVD): -71.0

SAMPLE DEPTH (FT.): -3.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.59

SAMPLE WEIGHT AFTER WASH (GRAMS): 69.83

|                    | ""          | 111 1 111 1111111 | (014115)            | 03.00        |               |
|--------------------|-------------|-------------------|---------------------|--------------|---------------|
| SIEVE<br>SIZE      | PHI<br>SIZE | MESH SIZE (mm)    | RETAINED<br>(GRAMS) | RETAINED (%) | PASSED<br>(%) |
| 5/8                | -4.0        | 16.000            | .00                 | .00          | 100.00        |
| 5/16               | -3.0        | 8.000             | .00                 | .00          | 100.00        |
| 5                  | -2.0        | 4.000             | .00                 | .00          | 100.00        |
| 7                  | -1.5        | 2.800             | .02                 | .03          | 99.97         |
| 10                 | -1.0        | 2.000             | .16                 | .22          | 99.78         |
| 14                 | -0.5        | 1.400             | .44                 | .61          | 99.39         |
| 18                 | 0.0         | 1.000             | 1.19                | 1.66         | 98.34         |
| 25                 | 0.5         | .710              | 6.70                | 9.36         | 90.64         |
| 35                 | 1.0         | .500              | 13.49               | 18.84        | 81.16         |
| 45                 | 1.5         | .355              | 25.44               | 35.54        | 64.46         |
| 60                 | 2.0         | .250              | 47.53               | 66.39        | 33.61         |
| 80                 | 2.5         | .180              | 61.96               | 86.55        | 13.45         |
| 120                | 3.0         |                   | 68.22               | 95.29        | 4.71          |
| 170                | 3.5         |                   | 69.47               | 97.04        | 2.96          |
| 200                | 3.75        |                   | 69.64               | 97.28        | 2.72          |
| 230                | 4.0         | .063              | 70.57               | 98.58        | 1.42          |
| PAN                |             |                   | 71.50               | 99.87        | .13           |
| DIIT / C \         |             | <br>\ TUU         | 16): .85            |              |               |
|                    | : .22       | •                 | 75): 2.21           | •            | 5): 1.18      |
| PHI (50<br>PHI (95 |             | •                 | 75): 2.21           | PII (0       | 4): 2.44      |
| PUT (32            | ): 2.90<br> |                   |                     |              |               |
| STEVE              | LOSS(g)     | : .09             |                     | SILT/CLAY    | • 2.72%       |
| SKEWNE             |             | 169               | •                   | KURTOSIS     |               |
|                    |             |                   |                     |              |               |
| GRAPHI             | C METHO     | D                 |                     |              |               |
|                    | PHI): 1     |                   |                     | SORTING      | : .79         |
|                    | mm) :       |                   | N                   | MEDIAN (mm)  | : .30         |
|                    |             | S CALCULATE       |                     |              |               |
|                    |             |                   |                     |              |               |
| MOMENT             | METHOD      |                   |                     |              |               |
| MEAN (             | PHI): 1     | .66               |                     | SORTING      | : .80         |
|                    | mm):        |                   |                     |              |               |
|                    |             |                   |                     |              |               |
| DATA F             | ILE NAM     | E: VC9666-1       | TAB                 |              |               |

DATA FILE NAME: VC9666-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-66-2

SAMPLE ELEV. (FT. NGVD): -76.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 42.34

SAMPLE WEIGHT AFTER WASH (GRAMS): 38.22

| DIMIT DU                                            | ""                                                         | 111 1211 1111011                                                     | (010110)                                                             | 00.22                                                                   |                                                                                 |
|-----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                  | RETAINED<br>(%)                                                         | PASSED<br>(%)                                                                   |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>2.33<br>3.96<br>5.53<br>7.15<br>8.30<br>9.86<br>12.02  | .00<br>.00<br>5.50<br>9.35<br>13.06<br>16.89<br>19.60<br>23.29<br>28.39 | 100.00<br>100.00<br>94.50<br>90.65<br>86.94<br>83.11<br>80.40<br>76.71<br>71.61 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0             | .355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063                 | 14.07<br>18.07<br>24.66<br>34.39<br>37.42<br>38.06<br>40.24<br>42.32 | 33.23<br>42.68<br>58.24<br>81.22<br>88.38<br>89.89<br>95.04<br>99.95    | 66.77<br>57.32<br>41.76<br>18.78<br>11.62<br>10.11<br>4.96<br>.05               |
| PHI (50                                             | : -2.09<br>): 2.24<br>): 4.00                              |                                                                      | 16):62<br>75): 2.86                                                  | PHI(2<br>PHI(8                                                          | 5): .67<br>4): 3.19                                                             |
| SIEVE<br>SKEWNE                                     | LOSS(g)<br>SS:                                             | : .02<br>673                                                         |                                                                      | SILT/CLAY<br>KURTOSIS                                                   |                                                                                 |
| MEAN (                                              | C METHO PHI): 1 mm): MEAN WA                               | .34                                                                  |                                                                      | SORTING<br>MEDIAN (mm)<br>POINT METH                                    | : .21                                                                           |
| MEAN (                                              | METHOD<br>PHI): 1<br>mm) :                                 |                                                                      |                                                                      | SORTING                                                                 | : 1.77                                                                          |

DATA FILE NAME: VC9666-2.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-66-3

SAMPLE ELEV. (FT. NGVD): -82.0

SAMPLE DEPTH (FT.): -14.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 62.02

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.87

| 5/16                                                                                                                                                                                                                                                                                                                                      |                                                                                            |                                                                                                      |                                                                                                            |                                                                                                                             |                                                                                                                               |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 5/16                                                                                                                                                                                                                                                                                                                                      |                                                                                            |                                                                                                      |                                                                                                            |                                                                                                                             |                                                                                                                               |                                                                                                                                               |
| PHI(5):75 PHI(16): .28 PHI(25): .77 PHI(50): 1.89 PHI(75): 3.13 PHI(84): 3.74 PHI(95): 4.08  SIEVE LOSS(g): .07 SILT/CLAY: 15.879 SKEWNESS:127 KURTOSIS: .846  GRAPHIC METHOD MEAN (PHI): 1.85 SORTING: 1.73 MEAN (mm): .28 MEDIAN (mm): .27 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.68 SORTING: 1.44 | 5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75 | 8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.65<br>1.15<br>2.00<br>4.20<br>7.28<br>12.08<br>18.44<br>24.05<br>33.08<br>39.34<br>45.32<br>50.04<br>52.18<br>57.26 | .00<br>1.05<br>1.85<br>3.22<br>6.77<br>11.74<br>19.48<br>29.73<br>38.78<br>53.34<br>63.43<br>73.07<br>80.68<br>84.13<br>92.32 | 100.00<br>100.00<br>98.95<br>98.15<br>96.78<br>93.23<br>88.26<br>80.52<br>70.27<br>61.22<br>46.66<br>36.57<br>26.93<br>19.32<br>15.87<br>7.68 |
| GRAPHIC METHOD  MEAN (PHI): 1.85  MEAN (mm): .28  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.68  SORTING: 1.44                                                                                                                                                                                          | PHI(5):                                                                                    | : 1.89                                                                                               |                                                                                                            | (16): .28                                                                                                                   | PHI (25                                                                                                                       | ): .77                                                                                                                                        |
| MEAN (PHI): 1.85 SORTING: 1.73 MEAN (mm): .28 MEDIAN (mm): .27 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.68 SORTING: 1.44                                                                                                                                                                               |                                                                                            |                                                                                                      |                                                                                                            |                                                                                                                             |                                                                                                                               |                                                                                                                                               |
| MEAN (PHI): 1.68 SORTING: 1.44                                                                                                                                                                                                                                                                                                            | MEAN (I                                                                                    | PHI): 1 nm):                                                                                         | .85<br>.28                                                                                                 |                                                                                                                             | MEDIAN (mm):                                                                                                                  | .27                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                           | MEAN (H                                                                                    | PHI): 1                                                                                              |                                                                                                            |                                                                                                                             | sorting:                                                                                                                      | 1.44                                                                                                                                          |

DATA FILE NAME: VC9666-3.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-67-1
SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 55.69

SAMPLE WEIGHT AFTER WASH (GRAMS): 53.07

|                                                                                            |                                                                                                |                                                                                                                      | . (000000)                                                                                                            |                                         |                                                                                                                                     |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE<br>(mm)                                                                                                    | RETAINED<br>(GRAMS)                                                                                                   |                                         | PASSED<br>(%)                                                                                                                       |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.00<br>.15<br>.21<br>.49<br>1.15<br>2.11<br>3.75<br>6.96<br>10.88<br>21.70<br>37.40<br>50.07<br>52.62<br>52.93 |                                         | 100.00<br>100.00<br>99.73<br>99.62<br>99.12<br>97.93<br>96.21<br>93.27<br>87.50<br>80.46<br>61.03<br>32.84<br>10.09<br>5.51<br>4.96 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063                                                                                                                 | 54.32<br>55.66                                                                                                        |                                         | 2.46                                                                                                                                |
| PHI (50)                                                                                   | : .21<br>): 2.20<br>): 3.73                                                                    |                                                                                                                      | (16): 1.25<br>(75): 2.67                                                                                              | •                                       | ): 1.64<br>): 2.87                                                                                                                  |
| SIEVE I                                                                                    | LOSS(g)<br>SS:                                                                                 | : .03<br>281                                                                                                         |                                                                                                                       | SILT/CLAY:<br>KURTOSIS:                 | 4.96%                                                                                                                               |
| MEAN (1                                                                                    | C METHOPHI): 2 mm): MEAN WA                                                                    | .05<br>.24                                                                                                           |                                                                                                                       | SORTING:<br>MEDIAN (mm):<br>POINT METHO | .22                                                                                                                                 |
| MEAN (                                                                                     | METHOD<br>PHI): 2<br>mm) :                                                                     |                                                                                                                      |                                                                                                                       | SORTING:                                | .93                                                                                                                                 |
|                                                                                            | <u> </u>                                                                                       |                                                                                                                      |                                                                                                                       |                                         |                                                                                                                                     |

DATA FILE NAME: VC9667-1.TAB

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: SK ON: 11/96

**SAMPLE NO.: VC96-67-2** 

SAMPLE ELEV. (FT. NGVD): -75.5

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 51.44

SAMPLE WEIGHT AFTER WASH (GRAMS): 48.23

| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                        | RETAINED (%)                                                                                                                                 | PASSED<br>(%)                                                                                                                               |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>1.80<br>1.84<br>2.51<br>3.48<br>4.52<br>6.26<br>9.07<br>11.96<br>18.90<br>31.15<br>44.53<br>47.60<br>48.06<br>49.77<br>51.41 | .00<br>.00<br>3.50<br>3.58<br>4.88<br>6.77<br>8.79<br>12.17<br>17.63<br>23.25<br>36.74<br>60.56<br>86.57<br>92.53<br>93.43<br>96.76<br>99.94 | 100.00<br>100.00<br>96.50<br>96.42<br>95.12<br>93.23<br>91.21<br>87.83<br>82.37<br>76.75<br>63.26<br>39.44<br>13.43<br>7.47<br>6.57<br>3.24 |
| PHI(5):                                                                                                  | 97<br>): 2.28<br>): 3.87                                                                              |                                                                                                                                      | (16): .85<br>(75): 2.78                                                                                                                    | PHI(2                                                                                                                                        | 5): 1.56<br>4): 2.95                                                                                                                        |
| SIEVE I                                                                                                  | Loss(g)                                                                                               | .03<br>789                                                                                                                           |                                                                                                                                            | SILT/CLAY<br>KURTOSIS                                                                                                                        |                                                                                                                                             |
| MEAN (I                                                                                                  | C METHOPHI): 1 nm): MEAN WA                                                                           | .80<br>.29                                                                                                                           |                                                                                                                                            | SORTING<br>MEDIAN (mm)<br>POINT METHO                                                                                                        | 21                                                                                                                                          |
| MEAN (I                                                                                                  | •                                                                                                     | .90<br>.27                                                                                                                           |                                                                                                                                            | SORTING                                                                                                                                      | : 1.33                                                                                                                                      |

DATA FILE NAME: VC9667-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-67-3
SAMPLE ELEV. (FT. NGVD): -80.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 49.63

SAMPLE WEIGHT AFTER WASH (GRAMS): 44.53

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SAMPLE                                             | METGUT                                                    | AFIER                      | WASH                                                        | (GYAMD)                                                      | • 44•                                                         | 23                                                   |                                               |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| 5/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |                                                           |                            |                                                             |                                                              |                                                               |                                                      |                                               |                                        |
| 80 2.5 .180 27.46 55.33 44.67 120 3.0 .125 36.45 73.44 26.56 170 3.5 .090 42.16 84.95 15.05 200 3.75 .075 43.91 88.47 11.53 230 4.0 .063 46.92 94.54 5.46 PAN 49.57 99.88 .12  PHI(5): -1.30 PHI(16): .37 PHI(25): 1.06 PHI(50): 2.29 PHI(75): 3.07 PHI(84): 3.46 PHI(95): 4.02  SIEVE LOSS(g): .06 SILT/CLAY: 11.53% SKEWNESS:598 KURTOSIS: 1.085  GRAPHIC METHOD MEAN (PHI): 1.77 SORTING: 1.55 MEAN (mm): .29 MEDIAN (mm): .21 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.82 SORTING: 1.53 | 5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0 | 8.<br>4.<br>2.<br>2.<br>1. | 000<br>000<br>800<br>000<br>400<br>000<br>710<br>500<br>355 | .0<br>1.3<br>2.0<br>3.1<br>4.4<br>6.1<br>8.5<br>12.0<br>15.3 | 0<br>3 2<br>0 4<br>8 6<br>8 9<br>2 12<br>9 17<br>1 24<br>0 30 | .00<br>.68<br>.03<br>.41<br>.03<br>.33<br>.31<br>.20 | 100<br>97<br>95<br>93<br>90<br>87<br>82<br>75 | .00<br>.32<br>.97<br>.59<br>.67<br>.69 |
| PHI(50): 2.29 PHI(75): 3.07 PHI(84): 3.46 PHI(95): 4.02  SIEVE LOSS(g): .06 SILT/CLAY: 11.53% SKEWNESS:598 KURTOSIS: 1.085  GRAPHIC METHOD MEAN (PHI): 1.77 SORTING: 1.55 MEAN (mm): .29 MEDIAN (mm): .21 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.82 SORTING: 1.53                                                                                                                                                                                                                         | 80<br>120<br>170<br>200<br>230                     | 2.5<br>3.0<br>3.5<br>3.75                                 | •                          | 180<br>125<br>090<br>075                                    | 27.4<br>36.4<br>42.1<br>43.9<br>46.9                         | 6 55<br>5 73<br>6 84<br>1 88<br>2 94                          | .33<br>.44<br>.95<br>.47                             | 44<br>26<br>15<br>11                          | .67<br>6.56<br>6.05<br>.53<br>6.46     |
| SKEWNESS:598 KURTOSIS: 1.085  GRAPHIC METHOD  MEAN (PHI): 1.77 SORTING: 1.55  MEAN (mm): .29 MEDIAN (mm): .21  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.82 SORTING: 1.53                                                                                                                                                                                                                                                                                                                   | PHI (50                                            | ): 2.29                                                   |                            |                                                             |                                                              |                                                               |                                                      |                                               |                                        |
| MEAN (PHI): 1.77 SORTING: 1.55 MEAN (mm): .29 MEDIAN (mm): .21 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.82 SORTING: 1.53                                                                                                                                                                                                                                                                                                                                                                    |                                                    |                                                           |                            |                                                             |                                                              |                                                               | •                                                    |                                               |                                        |
| MEAN (PHI): 1.82 SORTING: 1.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MEAN (                                             | PHI): 1 mm):                                              | .77<br>.29                 | JLATEI                                                      | O USING                                                      | MEDIAN                                                        | (mm)                                                 | :                                             |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MEAN (                                             | PHI): 1                                                   | .82                        |                                                             |                                                              | so                                                            | RTING                                                | : 1                                           | L.53                                   |

DATA FILE NAME: VC9667-3.TAB

SUB-APPENDIX B-3h OUTSIDE BORROW AREAS

## INDIVIDUAL SAMPLE GRADATION ANALYSIS REPORTS

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

\_\_\_\_\_

SAMPLE NO.: VC96-2-1

SAMPLE ELEV. (FT. NGVD): -70.0

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 59.29

SAMPLE WEIGHT AFTER WASH (GRAMS): 57.50

| SAMPLE        | WEIGHT       | AFTER  | WASH  | (GRA        | ms)  | :      | 5/.    | 50         |            |              |    |
|---------------|--------------|--------|-------|-------------|------|--------|--------|------------|------------|--------------|----|
| SIEVE<br>SIZE | PHI<br>SIZE  | MESH S |       | RETA<br>(GF | INE  |        |        | INED<br>%) | P <i>I</i> | ASSE<br>(%)  |    |
| 5/8<br>5/16   | -4.0<br>-3.0 |        | .000  |             | .0   |        |        | .00<br>.00 |            | L00.<br>L00. |    |
| 5             | -2.0         |        | .000  |             | .5   |        |        | .88        | -          | 99.          |    |
| 7             | -1.5         |        | 800   |             | . 8  |        |        | .35        |            | 98.          |    |
| 10            | -1.0         | 2 .    | .000  |             | 1.2  |        |        | .14        |            | 97.          |    |
| 14            | -0.5         | 1.     | 400   |             | 1.8  | 34     | 3      | .10        |            | 96.          |    |
| 18            | 0.0          | 1.     | .000  |             | 2.6  | 55     | 4      | .47        |            | 95.          | 53 |
| 25            | 0.5          |        | 710   |             | 3.9  | 8      | 6      | .71        |            | 93.          | 29 |
| 35            | 1.0          |        | .500  |             | 6.0  | 2      |        | .15        |            | 89.          | 85 |
| 45            | 1.5          | ,      | .355  |             | 8.0  | 1      |        | .51        |            | 86.          |    |
| 60            | 2.0          |        | .250  |             | L2.4 |        |        | .95        |            | 79.          | 05 |
| 80            | 2.5          |        | .180  |             | 22.0 |        |        | .11        |            | 62.          |    |
| 120           | 3.0          |        | .125  |             | 17.2 |        |        | .64        |            | 20.          |    |
| 170           | 3.5          |        | .090  |             | 57.0 |        |        | .17        |            |              | 83 |
| 200           | 3.75         |        | .075  |             | 57.3 |        |        | .73        |            |              | 27 |
| 230           | 4.0          |        | .063  |             | 58.3 |        |        | .36        |            |              | 64 |
| PAN           |              |        |       | 5           | 59.2 | 25     | 99     | .93        |            | •            | 07 |
| PHI(5)        | : .12        |        | PHI(  | 16):        | 1.6  | <br>57 |        | PHI(       | 25)        | <br>: 2.     | 13 |
|               | ): 2.65      |        | PHI ( |             |      |        |        | PHI (      |            |              |    |
|               | ): 3.46      |        | •     | •           |      |        |        | `          |            |              |    |
| CTEVE         | LOSS(g)      | • 0    |       |             |      |        | SILT   | /CT 7      | · ·        | 3.2          | 70 |
|               | SS:          |        |       |             |      |        |        | TOSI       |            |              |    |
|               |              |        |       |             |      |        |        |            |            |              |    |
| GRAPHI        | C METHO      | D      |       |             |      |        |        |            |            |              |    |
| MEAN (        | PHI): 2      | .21    |       |             |      |        | SO     | RTIN       | īG:        | •            | 73 |
| MEAN (        | mm) :        | .22    |       |             |      | 1      | MEDIAN | (mn        | ı):        |              | 16 |
| NOTE:         | MEAN WA      | S CALC | ULATE | D US        | ING  | 5      | POINT  | MET        | HOD        |              |    |
| MOMENT        | METHOD       |        |       |             |      |        |        |            |            |              |    |
|               | PHI): 2      |        |       |             |      |        | so     | RTIN       | IG:        | 1.           | 05 |
| •             | mm) :        |        |       |             |      |        | 30     | <b></b>    |            | •            |    |
|               |              |        |       |             |      |        |        |            |            |              |    |
| DATA F        | TLE NAM      | E: VC9 | 6-2-1 | .TAB        |      |        |        |            |            |              |    |

DATA FILE NAME: VC96-2-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-2-2

SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 52.09

SAMPLE WEIGHT AFTER WASH (GRAMS): 50.89

| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                       | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                  | RETAINED<br>(%)                                                       | PASSED (%)                                                                      |
|-----------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>1.05<br>1.72<br>2.91<br>4.77<br>7.28<br>10.74<br>14.42 | .00<br>.00<br>2.02<br>3.30<br>5.59<br>9.16<br>13.98<br>20.62<br>27.68 | 100.00<br>100.00<br>97.98<br>96.70<br>94.41<br>90.84<br>86.02<br>79.38<br>72.32 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0                    |                                                                      | 16.83<br>20.84<br>28.29<br>44.96<br>50.55<br>50.75<br>51.38<br>52.00 | 32.31<br>40.01<br>54.31<br>86.31<br>97.04<br>97.43<br>98.64<br>99.83  | 67.69<br>59.99<br>45.69<br>13.69<br>2.96<br>2.57<br>1.36                        |
| PHI(5):<br>PHI(50)<br>PHI(95)                       | : 2.35                                                            |                                                                      | (16): .15<br>(75): 2.82                                              | •                                                                     | 5): .81<br>4): 2.96                                                             |
| SIEVE I                                             |                                                                   | : .09<br>862                                                         |                                                                      | SILT/CLAY<br>KURTOSIS                                                 |                                                                                 |
| MEAN (n                                             | HI): 1 m):                                                        | .55<br>.34                                                           |                                                                      | SORTING<br>IEDIAN (mm)<br>POINT METHO                                 | : .20                                                                           |
| MOMENT<br>MEAN (F                                   |                                                                   | .76                                                                  |                                                                      | SORTING                                                               | : 1.44                                                                          |

DATA FILE NAME: VC96-2-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

\_\_\_\_\_

SAMPLE NO.: VC96-2-3

SAMPLE ELEV. (FT. NGVD): -75.3

SAMPLE DEPTH (FT.): -7.3 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 57.20

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.52

| DIMIT III                                                             | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                                                |                                                                                              |                                                                                            |                                                                                        |                                                                                                            |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                         | PHI<br>SIZE                                                                            | MESH SIZE (mm)                                                                               | RETAINED<br>(GRAMS)                                                                        |                                                                                        | PASSED<br>(%)                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250 | .00<br>.00<br>.47<br>.83<br>1.19<br>2.09<br>3.21<br>4.91<br>7.38<br>9.53<br>14.25<br>24.28 | .00<br>.82<br>1.45<br>2.08<br>3.65<br>5.61<br>8.58<br>12.90<br>16.66<br>24.91<br>42.45 | 100.00<br>100.00<br>99.18<br>98.55<br>97.92<br>96.35<br>94.39<br>91.42<br>87.10<br>83.34<br>75.09<br>57.55 |
| 120<br>170<br>200<br>230<br>PAN                                       | 3.0<br>3.5<br>3.75<br>4.0                                                              | .125<br>.090<br>.075<br>.063                                                                 | 47.82<br>55.14<br>55.40<br>56.28<br>57.15                                                  | 96.40<br>96.85<br>98.39                                                                | 16.40<br>3.60<br>3.15<br>1.61                                                                              |
| PHI (50                                                               | :16<br>): 2.59<br>): 3.45                                                              |                                                                                              | (16): 1.41<br>(75): 2.90                                                                   |                                                                                        | (25): 2.00<br>(84): 3.02                                                                                   |
| SIEVE                                                                 |                                                                                        | : .05<br>-1.181                                                                              |                                                                                            | SILT/CLA<br>KURTOSI                                                                    |                                                                                                            |
| MEAN (                                                                | C METHO PHI): 2 mm): MEAN WA                                                           | .06                                                                                          | ED USING 5                                                                                 | SORTII<br>MEDIAN (mi<br>POINT MET                                                      | n): .17                                                                                                    |
| MEAN (                                                                | METHOD<br>PHI): 2<br>mm):                                                              | .23                                                                                          |                                                                                            | SORTII                                                                                 | NG: 1.10                                                                                                   |

DATA FILE NAME: VC96-2-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

.

SAMPLE NO.: VC96-4-1

SAMPLE ELEV. (FT. NGVD): -71.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

|                                                                                                          |                                                                                                       | GHT (GRAMS<br>AFTER WASH                                       | 6): 42.58<br>(GRAMS):                                                                                                                     | 41.34                                                                                                                                        |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                 | RETAINED<br>(GRAMS)                                                                                                                       | RETAINED<br>(%)                                                                                                                              | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125 | .00<br>.00<br>1.01<br>1.22<br>1.51<br>2.22<br>3.05<br>4.46<br>6.44<br>8.22<br>12.83<br>22.08<br>36.58<br>41.05<br>41.24<br>41.88<br>42.53 | .00<br>.00<br>2.37<br>2.87<br>3.55<br>5.21<br>7.16<br>10.47<br>15.12<br>19.30<br>30.13<br>51.86<br>85.91<br>96.41<br>96.85<br>98.36<br>99.88 | 100.00<br>100.00<br>97.63<br>97.13<br>96.45<br>94.79<br>92.84<br>89.53<br>84.88<br>80.70<br>69.87<br>48.14<br>14.09<br>3.59<br>3.15<br>1.64 |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                                            | : 2.46                                                                                                |                                                                | (16): 1.10<br>(75): 2.84                                                                                                                  |                                                                                                                                              | 5): 1.76<br>4): 2.97                                                                                                                        |
| SIEVE I                                                                                                  |                                                                                                       | : .05<br>-1.096                                                |                                                                                                                                           | SILT/CLAY<br>KURTOSIS                                                                                                                        |                                                                                                                                             |
| GRAPHIC<br>MEAN (F<br>MEAN (M<br>NOTE: M                                                                 | PHI): 1                                                                                               | .88<br>.27                                                     | M<br>ED USING 5                                                                                                                           | SORTING<br>EDIAN (mm)<br>POINT METH                                                                                                          | : .18                                                                                                                                       |
| MOMENT<br>MEAN (F<br>MEAN (m                                                                             | PHI): 2                                                                                               | .07                                                            |                                                                                                                                           | SORTING                                                                                                                                      | : 1.23                                                                                                                                      |

DATA FILE NAME: VC96-4-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-4-2

SAMPLE ELEV. (FT. NGVD): -75.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 61.16
SAMPLE WEIGHT AFTER WASH (GRAMS): 59.05

| SAMPLE                                                                                                   | WEIGHT                                                                                                | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                                    | 59.05                                                                                                                                         |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                         | RETAINED<br>(%)                                                                                                                               | PASSED<br>(%)                                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>2.55<br>3.04<br>3.80<br>5.14<br>6.96<br>9.94<br>14.01<br>17.42<br>25.51<br>40.78<br>55.50<br>58.74<br>58.94<br>60.03<br>61.11 | .00<br>.00<br>4.17<br>4.97<br>6.21<br>8.40<br>11.38<br>16.25<br>22.91<br>28.48<br>41.71<br>66.68<br>90.75<br>96.04<br>96.37<br>98.16<br>99.92 | 100.00<br>100.00<br>95.83<br>95.03<br>93.79<br>91.60<br>88.62<br>83.75<br>77.09<br>71.52<br>58.29<br>33.32<br>9.25<br>3.96<br>3.63<br>1.84 |
| PHI (50                                                                                                  | : -1.49<br>): 2.17<br>): 3.40                                                                         |                                                                                                                                      | 16): .47<br>75): 2.67                                                                                                                       |                                                                                                                                               | 5): 1.19<br>4): 2.86                                                                                                                       |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)<br>SS:                                                                                        | : .05<br>-1.014                                                                                                                      |                                                                                                                                             | SILT/CLAY<br>KURTOSIS                                                                                                                         |                                                                                                                                            |
| MEAN (                                                                                                   | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                                 | .48                                                                                                                                  |                                                                                                                                             | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                                          | : .22                                                                                                                                      |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                            |                                                                                                                                      |                                                                                                                                             | SORTING                                                                                                                                       | : 1.40                                                                                                                                     |
| DATA F                                                                                                   | ILE NAM                                                                                               | E: VC96-4-2                                                                                                                          | .TAB                                                                                                                                        |                                                                                                                                               |                                                                                                                                            |

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-4-3

SAMPLE ELEV. (FT. NGVD): -79.5

SAMPLE DEPTH (FT.): -9.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

|                                                                                                          |                                                                                                       |                                                                                                                      | S): 58.7<br>H (GRAMS):                                                                                               |                                                                                                                                |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE                                                                                                    | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                       |                                                                                                                      | RETAINED<br>(%)                                                                                                                | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>1.87<br>3.49<br>5.56<br>8.33<br>10.44<br>13.34<br>18.05<br>22.61<br>31.07<br>40.99<br>50.95<br>54.33<br>54.82 | .00<br>3.19<br>5.95<br>9.47<br>14.19<br>17.79<br>22.73<br>30.75<br>38.52<br>52.93<br>69.83<br>86.80<br>92.56<br>93.39<br>96.68 | 100.00<br>100.00<br>96.81<br>94.05<br>90.53<br>85.81<br>82.21<br>77.27<br>69.25<br>61.48<br>47.07<br>30.17<br>13.20<br>7.44<br>6.61<br>3.32 |
| PHI(50                                                                                                   |                                                                                                       |                                                                                                                      | (16):25<br>(75): 2.65                                                                                                |                                                                                                                                | (25): .64<br>(84): 2.92                                                                                                                     |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)<br>SS:                                                                                        | : .05<br>504                                                                                                         |                                                                                                                      | SILT/CLA<br>KURTOSI                                                                                                            | AY: 6.61%<br>IS: 1.130                                                                                                                      |
| MEAN (                                                                                                   | C METHO:<br>PHI): 1<br>mm):<br>MEAN WA                                                                | .35<br>.39                                                                                                           | ED USING 5                                                                                                           | SORTIN<br>MEDIAN (mr<br>POINT MET                                                                                              | n): .27                                                                                                                                     |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                            |                                                                                                                      |                                                                                                                      | SORTI                                                                                                                          | NG: 1.55                                                                                                                                    |

DATA FILE NAME: VC96-4-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-6-1

SAMPLE ELEV. (FT. NGVD): -29.5 SAMPLE DEPTH (FT.): -1.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 70.45

SAMPLE WEIGHT AFTER WASH (GRAMS): 69.60

| SIEVE<br>SIZE | PHI<br>SIZE        | MESH SIZE (mm) | RETAINED<br>(GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|--------------------|----------------|---------------------|--------------|------------|
| 5/8           | -4.0               | 16.000         | .00                 | .00          | 100.00     |
| 5/16          | -3.0               | 8.000          | .00                 | .00          | 100.00     |
| 5             | -2.0               | 4.000          | .22                 | .31          | 99.69      |
| 7             | -1.5               | 2.800          | .40                 | .57          | 99.43      |
| 10            | -1.0               | 2.000          | .78                 |              | 98.89      |
| 14            | -0.5               | 1.400          | 1.35                |              | 98.08      |
| 18            | 0.0                | 1.000          | 2.28                | 3.24         | 96.76      |
| 25            | 0.5                | .710           | 4.85                |              | 93.12      |
| 35            | 1.0                | .500           | 12.72               |              | 81.94      |
| 45            | 1.5                | .355           | 22.80               | 32.36        | 67.64      |
| 60            | 2.0                | .250           | 44.83               | 63.63        | 36.37      |
| 80            | 2.5                | .180           | 62.89               |              | 10.73      |
| 120           | 3.0                | .125           | 68.93               | 97.84        | 2.16       |
| 170           | 3.5                | .090           | 69.54               |              | 1.29       |
| 200           | 3.75               | .075           | 69.55               | 98.72        | 1.28       |
| 230           | 4.0                | .063           | 69.98               | 99.33        | .67        |
| PAN           |                    |                | 70.40               | 99.93        | .07        |
|               | . 24               |                | (16): .91           |              | 5): 1.24   |
| PHI (50)      | ): 1.78<br>): 2.83 | Pni            | (75): 2.22          | PHI(8        | 4): 2.40   |
| SIEVE 1       | LOSS(g)            | .05            |                     | SILT/CLAY    | : 1.28%    |
| SKEWNES       |                    | 328            |                     | KURTOSIS     |            |
| GRAPHI        | C METHO            | D              |                     |              |            |
| MEAN ()       | PHI): 1            | .63            |                     | SORTING      | : .74      |
| MEAN (1       | mm):               | .32            |                     | MEDIAN (mm)  | : .29      |
| NOTE: 1       | MEAN WA            | S CALCULATI    | ED USING 5          | POINT METH   | OD         |
| MOMENT        | METHOD             |                |                     |              |            |
|               |                    | .67            |                     | SORTING      | : .81      |
| •             | mm) :              |                |                     |              |            |
|               |                    |                |                     |              |            |

DATA FILE NAME: VC96-6-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-7-1

SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_\_

USCS DESCRIPTION: SP

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 47.84

SAMPLE WEIGHT AFTER WASH (GRAMS): 46.05

| SAMPLE        | WEIGHT         | AFTER    | WASH  | (GRAM         | 5):  | 46.05           |        |                |            |
|---------------|----------------|----------|-------|---------------|------|-----------------|--------|----------------|------------|
| SIEVE<br>SIZE | PHI<br>SIZE    | MESH (mm |       | RETAI<br>(GRA |      | RETAIN<br>(%)   | ED P.  | ASSEC<br>(%)   | )          |
| 5/8<br>5/16   | -4.0<br>-3.0   |          | .000  |               | .00  | .0              |        | 100.0<br>100.0 |            |
| 5             | -2.0           |          | .000  |               | .30  | .6              |        | 99.3           |            |
| 7             | -1.5           |          | .800  |               | .35  |                 |        | 99.2           |            |
| 10            | -1.0           |          | .000  |               | .68  | 1.4             |        | 98.5           |            |
| 14            | -0.5           |          | .400  | 1             | .40  |                 |        | 97.0           |            |
| 18            | 0.0            |          | .000  |               | . 90 |                 |        | 96.0           |            |
| 25            | 0.5            |          | .710  |               | .83  |                 |        | 94.0           |            |
| 35            | 1.0            |          | .500  |               | .48  |                 |        | 90.6           |            |
| 45            | 1.5            |          | .355  |               | .30  |                 |        | 86.8           |            |
| 60            | 2.0            |          | .250  |               | .39  |                 |        | 78.2           |            |
| 80            | 2.5            |          | .180  |               | .30  |                 |        | 61.7           |            |
| 120           | 3.0            |          | .125  | 37            | .28  | 77.9            | 3      | 22.0           | 27         |
| 170           | 3.5            |          | .090  | 45            | .58  | 95.2            | 8      | 4.7            |            |
| 200           | 3.75           |          | .075  | 45            | .94  | 96.0            | 3      | 3.9            | 97         |
| 230           | 4.0            |          | .063  |               | .89  |                 | 0      | 2.0            | 00         |
| PAN           |                |          |       | 47            | .81  | 99.9            | 4      | . (            | 06         |
| PHT (5)       | : .26          |          | PHT   | 16): 1        | . 67 | PH              | I(25)  | . 2            | 10         |
|               | ): 2.65        |          |       | 75): 2        |      |                 | I(84)  |                |            |
|               | ): 3.49        |          |       | ,             |      |                 | - ( )  |                |            |
| CTEVE         | <br>TOCC/~\    |          |       | ·             |      |                 |        |                |            |
|               | LOSS(g)<br>SS: |          |       |               |      | SILT/C<br>KURTO |        | 1.53           |            |
| SVENNE        |                | -1.02    |       |               |      | NORIO           |        | 1.5.           |            |
| GRAPHI        | C METHO        | D        |       |               |      |                 |        |                |            |
| MEAN (        | PHI): 2        | .25      |       |               |      | SORT            | ING:   | •              | 75         |
|               | mm):           |          |       |               |      | MEDIAN (        | mm):   |                | 16         |
|               |                |          | ULATE | D USIN        | 1G 5 | POINT M         | ETHOD  |                |            |
| MOMENTO       | METHOD         |          |       |               |      |                 |        |                |            |
|               | PHI): 2        |          |       |               |      | SODI            | 'ING:  | 1.0            | 00         |
|               | mm):           |          | •     |               |      | DORI            | T14.G. | ⊥•(            | <i>.</i> . |
|               |                | ·        |       |               |      | ~               |        |                |            |
| יד בייבת      | TT.E. NAM      | E: VC9   | 6-7-1 | TAR           |      |                 |        |                |            |

DATA FILE NAME: VC96-7-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

\_\_\_\_\_

SAMPLE NO.: VC96-7-2

SAMPLE ELEV. (FT. NGVD): -75.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 53.33

SAMPLE WEIGHT AFTER WASH (GRAMS): 51.41

| omit bu                                                                                    | "TIL CILL                                                                                      | 111 1 111 111111             | (014415).                                                                                                               | J                                                                                                                   |                                                                                                                                     |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm)               | RETAINED<br>(GRAMS)                                                                                                     |                                                                                                                     | PASSED<br>(%)                                                                                                                       |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | .180<br>.125<br>.090<br>.075 | .00<br>.00<br>.46<br>1.49<br>2.79<br>4.20<br>5.47<br>7.13<br>9.45<br>11.53<br>15.81<br>23.81<br>42.99<br>50.90<br>51.26 | .00<br>.86<br>2.79<br>5.23<br>7.88<br>10.26<br>13.37<br>17.72<br>21.62<br>29.65<br>44.65<br>80.61<br>95.44<br>96.12 | 100.00<br>100.00<br>99.14<br>97.21<br>94.77<br>92.12<br>89.74<br>86.63<br>82.28<br>78.38<br>70.35<br>55.35<br>19.39<br>4.56<br>3.88 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063                         | 52.28<br>53.27                                                                                                          |                                                                                                                     | 1.97                                                                                                                                |
| PHI (50                                                                                    | : -1.05<br>): 2.57<br>): 3.49                                                                  | •                            | 16): .80<br>75): 2.92                                                                                                   |                                                                                                                     | 5): 1.71<br>4): 3.11                                                                                                                |
|                                                                                            |                                                                                                | : .06<br>-1.173              |                                                                                                                         | SILT/CLAY<br>KURTOSIS                                                                                               |                                                                                                                                     |
| MEAN (                                                                                     | C METHO PHI): 1 mm): MEAN WA                                                                   | .79                          |                                                                                                                         | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                | : .17                                                                                                                               |
| MEAN (                                                                                     | METHOD<br>PHI): 2<br>mm):                                                                      | .07                          |                                                                                                                         | SORTING                                                                                                             | : 1.33                                                                                                                              |

DATA FILE NAME: VC96-7-2.TAB

BROWARD COUNTY VIBRACORES 9/96 TESTED BY: SK ON: 9/96 SAMPLE NO.: VC96-8-1 SAMPLE ELEV. (FT. NGVD): -33.0 SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE USCS DESCRIPTION: SP DRY SAMPLE WEIGHT (GRAMS): 75.53 SAMPLE WEIGHT AFTER WASH (GRAMS): 74.08 \_\_\_\_\_ SIEVE PHI MESH SIZE RETAINED RETAINED PASSED SIZE SIZE (mm) (GRAMS) (%) (%) 

 5/8
 -4.0
 16.000
 .00
 .00
 100.00

 5/16
 -3.0
 8.000
 .00
 .00
 100.00

 5
 -2.0
 4.000
 .30
 .40
 99.60

 7
 -1.5
 2.800
 .62
 .82
 99.18

 10
 -1.0
 2.000
 1.34
 1.77
 98.23

 14
 -0.5
 1.400
 2.11
 2.79
 97.21

 18
 0.0
 1.000
 3.33
 4.41
 95.59

 25
 0.5
 .710
 6.00
 7.94
 92.06

 35
 1.0
 .500
 13.33
 17.65
 82.35

 45
 1.5
 .355
 22.84
 30.24
 69.76

 60
 2.0
 .250
 44.85
 59.38
 40.62

 80
 2.5
 .180
 65.84
 87.17
 12.83

 120
 3.0
 .125
 73.20
 96.92
 3.08

 170
 3.5
 .090
 73.99
 97.96
 2.04

 200
 3.75
 .075
 74.03
 \_\_\_\_\_ 5/16 PHI(5): .08 PHI(16): .92 PHI(25): 1.29 PHI(50): 1.84 PHI(75): 2.28 PHI(84): 2.44 PHI(95): 2.90 SIEVE LOSS(g): .03 SILT/CLAY: 1.99% SKEWNESS: -.453 KURTOSIS: 1.168 GRAPHIC METHOD .76 MEAN (PHI): 1.64 SORTING: MEAN (mm): .32 MEDIAN (mm): NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD MOMENT METHOD MEAN (PHI): 1.69 SORTING: .89

DATA FILE NAME: VC96-8-1.TAB

MEAN (mm) : .31

GRADATION ANALYSIS REPORT BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-8-2

SAMPLE ELEV. (FT. NGVD): -36.0 SAMPLE DEPTH (FT.): -4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.14

SAMPLE WEIGHT AFTER WASH (GRAMS): 74.40

| SIEVE<br>SIZE                                             | PHI<br>SIZE                                                       | MESH SIZE (mm)                                                               | RETAINED<br>(GRAMS)                                                        | RETAINED 1                                                                 | PASSED<br>(%)                                                                            |
|-----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500 | .00<br>.00<br>.33<br>.57<br>1.21<br>2.09<br>3.31<br>5.76<br>12.42<br>21.62 | .00<br>.00<br>.43<br>.75<br>1.59<br>2.74<br>4.35<br>7.57<br>16.31<br>28.40 | 100.00<br>100.00<br>99.57<br>99.25<br>98.41<br>97.26<br>95.65<br>92.43<br>83.69<br>71.60 |
| 60<br>80<br>120<br>170<br>200<br>230<br>PAN               | 2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0                           | .250<br>.180<br>.125<br>.090<br>.075<br>.063                                 | 43,50<br>65.83<br>73.59<br>74.26<br>74.31<br>75.19<br>76.07                | 57.13<br>86.46<br>96.65<br>97.53<br>97.60<br>98.75<br>99.91                | 42.87<br>13.54<br>3.35<br>2.47<br>2.40<br>1.25<br>.09                                    |
| PHI(5):<br>PHI(50)<br>PHI(95)                             |                                                                   |                                                                              | (16): .98<br>(75): 2.30                                                    |                                                                            | ): 1.36<br>): 2.46                                                                       |
| SIEVE I                                                   | Coss(g)                                                           | : .07<br>496                                                                 |                                                                            | SILT/CLAY:<br>KURTOSIS:                                                    |                                                                                          |
| MEAN (I<br>MEAN (I                                        | METHOPHI): 1 nm): MEAN WA                                         | .67<br>.31                                                                   |                                                                            | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                    | .27                                                                                      |
| MEAN (I                                                   | METHOD<br>PHI): 1<br>nm):                                         | .73                                                                          |                                                                            | SORTING:                                                                   | .88                                                                                      |

DATA FILE NAME: VC96-8-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-9-1

SAMPLE ELEV. (FT. NGVD): -74.3

SAMPLE DEPTH (FT.): -2.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY CAMPLE WETCHE (CDAMS). 60 79

| DRY SAMPLE WE SAMPLE WEIGHT                                                                                 |                                                                                                                    |                                                                                                                                      |                                         |                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE PHI<br>SIZE SIZE                                                                                      | MESH SIZE (mm)                                                                                                     | RETAINED<br>(GRAMS)                                                                                                                  | RETAINED<br>(%)                         | PASSED<br>(%)                                                                                                                              |
| 5/8 -4.0 5/16 -3.0 7 -1.5 10 -1.0 14 -0.5 18 0.0 25 0.5 35 1.0 45 1.5 60 2.0 80 2.5 120 3.0 170 3.5 230 4.0 | 8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>3.62<br>5.42<br>7.52<br>9.95<br>12.45<br>16.04<br>21.66<br>26.81<br>35.84<br>46.09<br>56.14<br>58.79<br>58.99<br>59.87 | 97.04<br>98.48                          | 100.00<br>100.00<br>94.05<br>91.08<br>87.63<br>83.63<br>79.52<br>73.61<br>64.37<br>55.90<br>41.04<br>24.18<br>7.65<br>3.29<br>2.96<br>1.52 |
| PAN                                                                                                         | PHI(                                                                                                               | 60.72<br>                                                                                                                            |                                         | .12<br>5): .38<br>4): 2.75                                                                                                                 |
| SIEVE LOSS(g)<br>SKEWNESS:                                                                                  | : .07<br>684                                                                                                       |                                                                                                                                      | SILT/CLAY:<br>KURTOSIS:                 |                                                                                                                                            |
| GRAPHIC METHOMEAN (PHI): 1 MEAN (mm): NOTE: MEAN WA                                                         | .50                                                                                                                |                                                                                                                                      | SORTING:<br>MEDIAN (mm):<br>POINT METHO | .31                                                                                                                                        |
| MOMENT METHOI<br>MEAN (PHI): 3<br>MEAN (mm):                                                                | )<br>L.23<br>.43                                                                                                   |                                                                                                                                      | SORTING                                 | 1.60                                                                                                                                       |

DATA FILE NAME: VC96-9-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-9-2

SAMPLE ELEV. (FT. NGVD): -78.3

SAMPLE DEPTH (FT.): -6.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 75.47

SAMPLE WEIGHT AFTER WASH (GRAMS): 73.01

| SAMPLE             | WEIGHI                                | AFIER WASH      | (GRAMS):            | /3.01                             |                       |
|--------------------|---------------------------------------|-----------------|---------------------|-----------------------------------|-----------------------|
| SIEVE<br>SIZE      | PHI<br>SIZE                           | MESH SIZE (mm)  | RETAINED<br>(GRAMS) | RETAINED (%)                      | PASSED<br>(%)         |
| 5/8<br>5/16        | -4.0<br>-3.0                          | 16.000<br>8.000 | .00                 | .00                               | 100.00                |
| 5                  | -2.0                                  | 4.000           | 4.15                |                                   | 94.50                 |
| 7                  | -1.5<br>-1.0                          | 2.800<br>2.000  | 6.49<br>9.12        |                                   | 91.40                 |
| 10<br>14           | -0.5                                  | 1.400           | 12.04               |                                   | 87.92<br>84.05        |
| 18                 | 0.0                                   | 1.000           | 15.12               |                                   | 79.97                 |
| 25                 | 0.5                                   | .710            | 19.53               |                                   | 74.12                 |
| 35                 | 1.0                                   | .500            | 26.45               |                                   | 64.95                 |
| 45                 | 1.5                                   | .355            | 32.86               |                                   | 56.46                 |
| 60                 | 2.0                                   | .250            | 43.97               |                                   | 41.74                 |
| 80                 | 2.5                                   | .180            | 56.61               |                                   | 24.99                 |
| 120                | 3.0                                   | .125            | 69.21               |                                   | 8.29                  |
| 170                | 3.5                                   | .090            | 72.55               |                                   | 3.87                  |
| 200                | 3.75                                  | .075            | 72.88               |                                   | 3.43                  |
| 230                | 4.0                                   | .063            | 74.17               |                                   | 1.72                  |
| PAN                |                                       |                 | 75.42               | 99.93                             | .07                   |
| PHI (50)           | : -2.09<br>): 1.72<br>): 3.37         | PHI(            | 16):49<br>75): 2.50 |                                   | 25): .42<br>84): 2.77 |
| SIEVE SKEWNE       |                                       | : .05<br>661    |                     | SILT/CLA<br>KURTOSI               |                       |
| MEAN (1<br>MEAN (1 | C METHO<br>PHI): 1<br>mm):<br>MEAN WA | .06             |                     | SORTIN<br>MEDIAN (mm<br>POINT MET | ): .30                |
| MEAN (             | METHOD<br>PHI): 1<br>mm):             | .26             |                     | SORTIN                            | G: 1.59               |
|                    |                                       |                 |                     |                                   |                       |

DATA FILE NAME: VC96-9-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-9-3

SAMPLE ELEV. (FT. NGVD): -80.8

SAMPLE DEPTH (FT.): -9.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 73.62 SAMPLE WEIGHT AFTER WASH (GRAMS): 69.38

| SAMPLE                                                                                                   | WEIGHT                                                                                                | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                                      | 69.38                                                                                                                                          |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                           | RETAINED<br>(%)                                                                                                                                | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>2.15<br>3.31<br>5.85<br>9.28<br>12.48<br>17.25<br>24.83<br>31.92<br>43.28<br>53.99<br>64.62<br>68.54<br>69.22<br>71.42<br>73.56 | .00<br>.00<br>2.92<br>4.50<br>7.95<br>12.61<br>16.95<br>23.43<br>33.73<br>43.36<br>58.79<br>73.34<br>87.78<br>93.10<br>94.02<br>97.01<br>99.92 | 100.00<br>100.00<br>97.08<br>95.50<br>92.05<br>87.39<br>83.05<br>76.57<br>66.27<br>56.64<br>41.21<br>26.66<br>12.22<br>6.90<br>5.98<br>2.99 |
| PHI (50                                                                                                  | : -1.43<br>): 1.72<br>): 3.83                                                                         |                                                                                                                                      | 16):11<br>75): 2.56                                                                                                                           |                                                                                                                                                | 5): .58<br>4): 2.87                                                                                                                         |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)<br>SS:                                                                                        | : .06<br>344                                                                                                                         |                                                                                                                                               | SILT/CLAY<br>KURTOSIS                                                                                                                          |                                                                                                                                             |
| MEAN (                                                                                                   | C METHO PHI): 1 mm): MEAN WA                                                                          | .38                                                                                                                                  |                                                                                                                                               | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                                           | : .30                                                                                                                                       |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                            |                                                                                                                                      |                                                                                                                                               | SORTING                                                                                                                                        | 3: 1.47                                                                                                                                     |
|                                                                                                          |                                                                                                       |                                                                                                                                      |                                                                                                                                               |                                                                                                                                                |                                                                                                                                             |

DATA FILE NAME: VC96-9-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-10-1

SAMPLE ELEV. (FT. NGVD): -71.3

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.70

SAMPLE WEIGHT AFTER WASH (GRAMS): 70.13

| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                             | MESH SIZE (mm)                                                                                                       | RETAINED<br>(GRAMS)                                                                                                | RETAINED<br>(%)                                                                                                      | PASSED<br>(%)                                                                                                                       |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.0<br>2.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.00<br>.35<br>.46<br>.61<br>.83<br>1.08<br>1.66<br>2.81<br>4.81<br>8.58<br>22.13<br>59.26<br>69.71<br>70.03 | .00<br>.00<br>.49<br>.64<br>.85<br>1.16<br>1.51<br>2.32<br>3.92<br>6.71<br>11.97<br>30.86<br>82.65<br>97.22<br>97.67 | 100.00<br>100.00<br>99.51<br>99.36<br>99.15<br>98.84<br>98.49<br>97.68<br>96.08<br>93.29<br>88.03<br>69.14<br>17.35<br>2.78<br>2.33 |
| 230<br>PAN                                                                                 | 4.0                                                                                     | .063                                                                                                                 | 70.87                                                                                                              | 98.84<br>99.97                                                                                                       | 1.16                                                                                                                                |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                              | : 2.68                                                                                  |                                                                                                                      | 16): 2.11<br>75): 2.93                                                                                             | •                                                                                                                    | 5): 2.34<br>2): 3.05                                                                                                                |
| SIEVE L                                                                                    |                                                                                         | .02<br>800                                                                                                           |                                                                                                                    | SILT/CLAY:<br>KURTOSIS:                                                                                              |                                                                                                                                     |
| GRAPHIC<br>MEAN (P.<br>MEAN (m.<br>NOTE: M                                                 | HI): 2                                                                                  | .49<br>.18                                                                                                           |                                                                                                                    | SORTING:<br>EDIAN (mm):<br>POINT METHO                                                                               | .16                                                                                                                                 |
| MOMENT : MEAN (P. MEAN (m.                                                                 |                                                                                         |                                                                                                                      |                                                                                                                    | SORTING:                                                                                                             | .75                                                                                                                                 |

DATA FILE NAME: VC9610-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-10-2

SAMPLE ELEV. (FT. NGVD): -74.3

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.88

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.62

| SHIPLE                                                                              | MEIGHI                                                                                 | AFIER WASH           | (Givino).                        | 03.02                                                                                                             |                                                                                                                             |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                            | MESH SIZE (mm)       | RETAINED<br>(GRAMS)              | RETAINED<br>(%)                                                                                                   | PASSED<br>(%)                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5 | .180<br>.125<br>.090 | 21.21<br>33.49<br>56.81<br>63.13 | .00<br>.00<br>2.96<br>3.95<br>5.43<br>7.51<br>9.71<br>12.99<br>17.73<br>22.36<br>32.19<br>50.83<br>86.23<br>95.83 | 100.00<br>100.00<br>97.04<br>96.05<br>94.57<br>92.49<br>90.29<br>87.01<br>82.27<br>77.64<br>67.81<br>49.17<br>13.77<br>4.17 |
| 200<br>230<br>PAN                                                                   | 3.75<br>4.0                                                                            | .075<br>.063         | 63.46<br>64.63<br>65.80          | 96.33<br>98.10<br>99.88                                                                                           | 3.67<br>1.90<br>.12                                                                                                         |
| PHI (50                                                                             | : -1.15<br>): 2.48<br>): 3.46                                                          |                      | (16): .82<br>(75): 2.84          | PHI(2<br>PHI(8                                                                                                    | 5): 1.63<br>4): 2.97                                                                                                        |
| SIEVE :                                                                             |                                                                                        | : .08<br>-1.229      |                                  | SILT/CLAY<br>KURTOSIS                                                                                             |                                                                                                                             |
| MEAN (                                                                              | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                  | .71<br>.30           |                                  | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                              | : .18                                                                                                                       |
| MEAN (                                                                              | METHOD<br>PHI): 1<br>mm) :                                                             | .97                  |                                  | SORTING                                                                                                           | : 1.36                                                                                                                      |
|                                                                                     |                                                                                        |                      |                                  |                                                                                                                   |                                                                                                                             |

DATA FILE NAME: VC9610-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-11-1

SAMPLE ELEV. (FT. NGVD): -71.2

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 75.37

SAMPLE WEIGHT AFTER WASH (GRAMS): 73.13

| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED (GRAMS)                                                                                                                 | RETAINED (%)                                                                                                                    | PASSED<br>(%)                                                                                                                       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.09<br>.20<br>.38<br>1.06<br>2.35<br>4.84<br>8.49<br>11.64<br>17.70<br>28.48<br>59.09<br>72.36<br>72.91<br>74.13<br>75.30 | .00<br>.00<br>.12<br>.27<br>.50<br>1.41<br>3.12<br>6.42<br>11.26<br>15.44<br>23.48<br>37.79<br>78.40<br>96.01<br>96.74<br>98.35 | 100.00<br>100.00<br>99.88<br>99.73<br>99.50<br>98.59<br>96.88<br>93.58<br>88.74<br>84.56<br>76.52<br>62.21<br>21.60<br>3.99<br>3.26 |
| PAN<br><br>PHI(5)<br>PHI(50<br>PHI(95                                                             | ): 2.65                                                                                       |                                                                                                                                      | (16): 1.53<br>(75): 2.96                                                                                                         |                                                                                                                                 | .09<br>5): 2.05<br>4): 3.16                                                                                                         |
| SIEVE<br>SKEWNE                                                                                   | LOSS(g)<br>SS:                                                                                | : .07<br>951                                                                                                                         |                                                                                                                                  | SILT/CLAY<br>KURTOSIS                                                                                                           |                                                                                                                                     |
| MEAN (                                                                                            |                                                                                               | .22<br>.21                                                                                                                           |                                                                                                                                  | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                            | : .16                                                                                                                               |
| MEAN (                                                                                            | METHOD<br>PHI): 2<br>mm) :                                                                    | .36                                                                                                                                  |                                                                                                                                  | SORTING                                                                                                                         | .95                                                                                                                                 |
| DATA F                                                                                            | ILE NAM                                                                                       | E: VC9611-                                                                                                                           | 1.TAB                                                                                                                            |                                                                                                                                 |                                                                                                                                     |

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-11-2

SAMPLE ELEV. (FT. NGVD): -73.5

SAMPLE DEPTH (FT.): -3.3 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 64.58

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.14

| DIMIL DI                                                                                   | Whitehir                                                                                              | 111 1 111 ( ((1115)11                                                                                                | (014115).                                                                                                                  | 02.14                                |                                                                                                                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                           | MESH SIZE (mm)                                                                                                       | RETAINED<br>(GRAMS)                                                                                                        | RETAINED (%)                         | PASSED<br>(%)                                                                                                                       |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.00<br>2.05<br>2.79<br>3.65<br>5.45<br>7.51<br>10.38<br>14.47<br>17.79<br>23.44<br>32.03<br>53.31<br>61.66<br>62.04 | 95.48                                | 100.00<br>100.00<br>96.83<br>95.68<br>94.35<br>91.56<br>88.37<br>83.93<br>77.59<br>72.45<br>63.70<br>50.40<br>17.45<br>4.52<br>3.93 |
| 230<br>PAN                                                                                 | 4.0                                                                                                   | .063                                                                                                                 | 63.30<br>64.54                                                                                                             | 98.02                                | 1.98                                                                                                                                |
| PHI (50)                                                                                   | : -1.24<br>): 2.51<br>): 3.48                                                                         |                                                                                                                      | 16): .49<br>75): 2.89                                                                                                      | •                                    | 5): 1.25<br>4): 3.06                                                                                                                |
| SIEVE I                                                                                    |                                                                                                       | : .04<br>-1.082                                                                                                      |                                                                                                                            | SILT/CLAY<br>KURTOSIS                |                                                                                                                                     |
| MEAN (1<br>MEAN (1                                                                         | C METHOPHI): 1 mm): MEAN WA                                                                           | .66<br>.32                                                                                                           |                                                                                                                            | SORTING<br>MEDIAN (mm)<br>POINT METH | : .18                                                                                                                               |
| MEAN (1                                                                                    | METHOD<br>PHI): 1<br>mm) :                                                                            |                                                                                                                      |                                                                                                                            | SORTING                              | : 1.45                                                                                                                              |

DATA FILE NAME: VC9611-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-11-3

SAMPLE ELEV. (FT. NGVD): -78.2

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.89

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.54

| SIEVE<br>SIZE                                                                | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                                                       | RETAINED (GRAMS)                                                                             | RETAINED<br>(%)                      | PASSED (%)                                                                                                          |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180 | .00<br>.40<br>.50<br>.80<br>1.41<br>2.15<br>3.72<br>6.65<br>10.51<br>20.22<br>34.20<br>48.55 | 18.47<br>35.54<br>60.12<br>85.34     | 100.00<br>100.00<br>99.30<br>99.12<br>98.59<br>97.52<br>96.22<br>93.46<br>88.31<br>81.53<br>64.46<br>39.88<br>14.66 |
| 170<br>200<br>230<br>PAN                                                     | 3.5<br>3.75<br>4.0                                                              | .090<br>.075<br>.063                                                                                 | 53.77<br>54.33<br>55.58<br>56.82                                                             | 95.50<br>97.71                       | 5.48<br>4.50<br>2.29<br>.12                                                                                         |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                | : 2.29                                                                          |                                                                                                      | 16): 1.32<br>75): 2.80                                                                       |                                      | 25): 1.69<br>34): 2.97                                                                                              |
| SIEVE I                                                                      |                                                                                 | : .07<br>449                                                                                         |                                                                                              | SILT/CLAY<br>KURTOSIS                |                                                                                                                     |
|                                                                              | PHI): 2                                                                         | .09<br>.24                                                                                           |                                                                                              | SORTING<br>MEDIAN (mm)<br>POINT METH | : .20                                                                                                               |
| MOMENT<br>MEAN (E                                                            | PHI): 2                                                                         |                                                                                                      |                                                                                              | SORTING                              | G: 1.00                                                                                                             |

DATA FILE NAME: VC9611-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-18-1

SAMPLE ELEV. (FT. NGVD): -73.5

SAMPLE DEPTH (FT.): -1.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.98
SAMPLE WEIGHT AFTER WASH (GRAMS): 52.85

| SAMPLE                                                                                                   | WEIGHT                                                                                        | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                            | 52.85                                                                                                                          |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SIZE<br>(mm)                                                                                                                    | RETAINED<br>(GRAMS)                                                                                                                 | RETAINED<br>(%)                                                                                                                | PASSED<br>(%)                                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>1.46<br>1.91<br>3.80<br>6.33<br>9.75<br>14.91<br>22.71<br>29.15<br>36.92<br>44.23<br>50.81<br>52.66<br>52.78<br>53.36 | .00<br>2.70<br>3.54<br>7.04<br>11.73<br>18.06<br>27.62<br>42.07<br>54.00<br>68.40<br>81.94<br>94.13<br>97.55<br>97.78<br>98.86 | 100.00<br>100.00<br>97.30<br>96.46<br>92.96<br>88.27<br>81.94<br>72.38<br>57.93<br>46.00<br>31.60<br>18.06<br>5.87<br>2.45<br>2.22<br>1.14 |
| PHI (50                                                                                                  | : -1.29<br>): 1.33<br>): 3.13                                                                 |                                                                                                                                      | 16):16<br>75): 2.24                                                                                                                 | •                                                                                                                              | 5): .36<br>4): 2.58                                                                                                                        |
|                                                                                                          | LOSS(g)<br>SS:                                                                                |                                                                                                                                      |                                                                                                                                     | SILT/CLAY<br>KURTOSIS                                                                                                          |                                                                                                                                            |
| MEAN (                                                                                                   | C METHO PHI): 1 mm): MEAN WA                                                                  | .12<br>.46                                                                                                                           |                                                                                                                                     | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                           | : .40                                                                                                                                      |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm):                                                                     |                                                                                                                                      |                                                                                                                                     | SORTING                                                                                                                        | 1.35                                                                                                                                       |
| рата ғ                                                                                                   | TLE NAM                                                                                       | E: VC9618-1                                                                                                                          | TAB                                                                                                                                 |                                                                                                                                |                                                                                                                                            |

DATA FILE NAME: VC9618-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-18-2

SAMPLE ELEV. (FT. NGVD): -75.5 SAMPLE DEPTH (FT.): -3.5

SAMPLE DEPTH (FT.): -3.5 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 53.62

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.37

| SIEVE         PHI         MESH SIZE (mm)         RETAINED (GRAMS)         RETAINED (%)         PASSET (%)           5/8         -4.0         16.000         .00         .00         100.0           5/16         -3.0         8.000         .00         .00         100.0           5         -2.0         4.000         .29         .54         99.4           7         -1.5         2.800         .63         1.17         98.8           10         -1.0         2.000         1.76         3.28         96.3           14         -0.5         1.400         3.96         7.39         92.6           18         0.0         1.000         7.28         13.58         86.4           25         0.5         .710         13.12         24.47         75.5 |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 5/16     -3.0     8.000     .00     .00     100.0       5     -2.0     4.000     .29     .54     99.4       7     -1.5     2.800     .63     1.17     98.8       10     -1.0     2.000     1.76     3.28     96.7       14     -0.5     1.400     3.96     7.39     92.6       18     0.0     1.000     7.28     13.58     86.4                                                                                                                                                                                                                                                                                                                                                                                                                                | D                                      |
| 25 0.5 .710 13.12 24.47 75.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 00<br>46<br>83<br>72<br>61             |
| 35 1.0 .500 21.59 40.26 59.7 45 1.5 .355 28.02 52.26 47.7 60 2.0 .250 35.31 65.85 34.3 80 2.5 .180 42.15 78.61 21.3 120 3.0 .125 49.49 92.30 7.7 170 3.5 .090 52.13 97.22 2.7 200 3.75 .075 52.29 97.52 2.7 230 4.0 .063 52.94 98.74 1.3 PAN 53.59 99.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74<br>74<br>15<br>39<br>70<br>78<br>48 |
| PHI(5):79 PHI(16): .11 PHI(25): .11 PHI(50): 1.41 PHI(75): 2.36 PHI(84): 2.11 PHI(95): 3.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| SIEVE LOSS(g): .03 SILT/CLAY: 2.4 SKEWNESS:127 KURTOSIS: .9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8%<br>05                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 29<br>38                               |
| MOMENT METHOD MEAN (PHI): 1.33 SORTING: 1. MEAN (mm): .40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22                                     |

DATA FILE NAME: VC9618-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-18-3

SAMPLE ELEV. (FT. NGVD): -80.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 50.14

SAMPLE WEIGHT AFTER WASH (GRAMS): 46.54

| SAMPLE                                                                                                   | WEIGHT                                                                                        | AFTER WASH                                                                                                                           | (GRAMS):                                                                                                                                   | 46.54                                                                                                                                        |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                        | RETAINED<br>(%)                                                                                                                              | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>1.30<br>1.96<br>2.73<br>3.81<br>4.97<br>6.63<br>9.53<br>12.56<br>18.64<br>27.16<br>40.07<br>45.40<br>46.27<br>48.22<br>50.07 | .00<br>.00<br>2.59<br>3.91<br>5.44<br>7.60<br>9.91<br>13.22<br>19.01<br>25.05<br>37.18<br>54.17<br>79.92<br>90.55<br>92.28<br>96.17<br>99.86 | 100.00<br>100.00<br>97.41<br>96.09<br>94.56<br>92.40<br>90.09<br>86.78<br>80.99<br>74.95<br>62.82<br>45.83<br>20.08<br>9.45<br>7.72<br>3.83 |
| PHI (50                                                                                                  | : -1.14<br>): 2.38<br>): 3.92                                                                 |                                                                                                                                      | 16): .74<br>75): 2.90                                                                                                                      |                                                                                                                                              | 5): 1.50<br>4): 3.19                                                                                                                        |
| SIEVE SKEWNE                                                                                             | LOSS(g)<br>SS:                                                                                | : .07<br>805                                                                                                                         |                                                                                                                                            | SILT/CLAY<br>KURTOSIS                                                                                                                        |                                                                                                                                             |
| MEAN (                                                                                                   | C METHOPHI): 1 mm): MEAN WA                                                                   | .82<br>.28                                                                                                                           |                                                                                                                                            | SORTING<br>MEDIAN (mm)<br>POINT METHO                                                                                                        | .19                                                                                                                                         |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                    |                                                                                                                                      | :                                                                                                                                          | SORTING                                                                                                                                      | : 1.40                                                                                                                                      |
| בי אמוא בי                                                                                               | TT TO 1171M                                                                                   | F. T/C0610-2                                                                                                                         | m x to                                                                                                                                     |                                                                                                                                              |                                                                                                                                             |

DATA FILE NAME: VC9618-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-20-1

SAMPLE ELEV. (FT. NGVD): -74.0

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 51.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 49.25

| SIEVE PHI (mm) (GRAMS) (%) (%)  5/8 -4.0 16.000 .00 .00 100.00  5/16 -3.0 8.000 .00 .00 100.00  5 -2.0 4.000 2.19 4.29 95.71  7 -1.5 2.800 2.86 5.60 94.40  10 -1.0 2.000 3.85 7.54 92.46  14 -0.5 1.400 5.85 11.46 88.54  18 0.0 1.000 8.78 17.20 82.80  25 0.5 .710 13.42 26.29 73.71  35 1.0 .500 19.79 38.77 61.23  45 1.5 .355 24.83 48.65 51.35  60 2.0 .250 33.22 65.09 34.91  80 2.5 .180 41.31 80.94 19.06  120 3.0 .125 47.51 93.08 6.99  170 3.5 .090 49.00 96.00 4.00  200 3.75 .075 49.17 96.34 3.66  230 4.0 .063 50.08 98.13 1.87  PAN 51.00 99.92 .08  PHI(5): -1.73 PHI(16):10 PHI(25): .43  PHI(50): 1.54 PHI(75): 2.31 PHI(84): 2.63  PHI(50): 3.33  SIEVE LOSS(g): .04 SILT/CLAY: 3.66% KURTOSIS: 1.100  GRAPHIC METHOD MEAN (PHI): 1.13 MEAN (mm): .46 MEDIAN (mm): .34  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.22 MEAN (mm): .43 |                                                                                     |                                                                                        |                                                                                                            |                                                                                                                     | 13.23                                                                                                                 |                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 5/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                     |                                                                                        |                                                                                                            |                                                                                                                     |                                                                                                                       |                                                                                                                          |
| PAN 51.00 99.92 .08  PHI(5): -1.73 PHI(16):10 PHI(25): .43  PHI(50): 1.54 PHI(75): 2.31 PHI(84): 2.63  PHI(95): 3.33  SIEVE LOSS(g): .04 SILT/CLAY: 3.66%  SKEWNESS:543 KURTOSIS: 1.100  GRAPHIC METHOD  MEAN (PHI): 1.13 SORTING: 1.37  MEAN (mm): .46 MEDIAN (mm): .34  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MOMENT METHOD  MEAN (PHI): 1.22 SORTING: 1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>2.19<br>2.86<br>3.85<br>5.85<br>8.78<br>13.42<br>19.79<br>24.83<br>33.22<br>41.31<br>47.51<br>49.00<br>49.17 | .00<br>4.29<br>5.60<br>7.54<br>11.46<br>17.20<br>26.29<br>38.77<br>48.65<br>65.09<br>80.94<br>93.08<br>96.00<br>96.34 | 100.00<br>95.71<br>94.40<br>92.46<br>88.54<br>82.80<br>73.71<br>61.23<br>51.35<br>34.91<br>19.06<br>6.92<br>4.00<br>3.66 |
| PHI(50): 1.54 PHI(75): 2.31 PHI(84): 2.63 PHI(95): 3.33  SIEVE LOSS(g): .04 SILT/CLAY: 3.66% SKEWNESS:543 KURTOSIS: 1.100  GRAPHIC METHOD MEAN (PHI): 1.13 SORTING: 1.37 MEAN (mm): .46 MEDIAN (mm): .34 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.22 SORTING: 1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     | 4.0                                                                                    | .063                                                                                                       |                                                                                                                     |                                                                                                                       |                                                                                                                          |
| SKEWNESS:543 KURTOSIS: 1.100  GRAPHIC METHOD  MEAN (PHI): 1.13 SORTING: 1.37  MEAN (mm): .46 MEDIAN (mm): .34  NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD  MEAN (PHI): 1.22 SORTING: 1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PHI (50)                                                                            | : 1.54                                                                                 |                                                                                                            |                                                                                                                     |                                                                                                                       |                                                                                                                          |
| MEAN (PHI): 1.13 SORTING: 1.37 MEAN (mm): .46 MEDIAN (mm): .34 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  MOMENT METHOD MEAN (PHI): 1.22 SORTING: 1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                        |                                                                                                            |                                                                                                                     |                                                                                                                       |                                                                                                                          |
| MEAN (PHI): 1.22 SORTING: 1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MEAN (I                                                                             | PHI): 1 mm) :                                                                          | .13<br>.46                                                                                                 |                                                                                                                     | MEDIAN (mm)                                                                                                           | : .34                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MEAN (I                                                                             | PHI): 1                                                                                |                                                                                                            |                                                                                                                     | SORTING                                                                                                               | : 1.42                                                                                                                   |

DATA FILE NAME: VC9620-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-20-2

SAMPLE ELEV. (FT. NGVD): -78.0

SAMPLE DEPTH (FT.): -6.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 43.79

|                                                                                                          |                                                                                               | AFTER WASH     |                                                                                                                            |                                                                                                                               |                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                                        |                                                                                                                               | PASSED<br>(%)                                                                                                                                |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>4.0 |                | .00<br>.90<br>1.49<br>2.14<br>3.60<br>5.98<br>9.35<br>12.68<br>14.68<br>17.98<br>23.58<br>33.68<br>38.71<br>39.62<br>41.74 | .00<br>2.06<br>3.40<br>4.89<br>8.22<br>13.66<br>21.35<br>28.96<br>33.52<br>41.06<br>53.85<br>76.91<br>88.40<br>90.48<br>95.31 | 100.00<br>100.00<br>97.94<br>96.60<br>95.11<br>91.78<br>86.34<br>78.65<br>71.04<br>66.48<br>58.94<br>46.15<br>23.09<br>11.60<br>9.52<br>4.69 |
| PHI (50)                                                                                                 | 98<br>): 2.35<br>): 3.98                                                                      | PHI            | (16): .15<br>(75): 2.96                                                                                                    |                                                                                                                               | 25): .74<br>84): 3.31                                                                                                                        |
|                                                                                                          | LOSS(g)<br>SS:                                                                                | : .05<br>538   |                                                                                                                            | SILT/CLA<br>KURTOSI                                                                                                           | Y: 9.52%<br>S: .918                                                                                                                          |
| MEAN (1<br>MEAN (1                                                                                       | C METHO<br>PHI): 1<br>mm) :<br>MEAN WA                                                        | .76            |                                                                                                                            | SORTIN<br>MEDIAN (mm<br>POINT MET                                                                                             | 1): .20                                                                                                                                      |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                    | .77            |                                                                                                                            | SORTIN                                                                                                                        | IG: 1.51                                                                                                                                     |

DATA FILE NAME: VC9620-2.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-20-3

SAMPLE ELEV. (FT. NGVD): -82.0

SAMPLE DEPTH (FT.): -10.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SS

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DRY SAMPLE WEIGHT (GRAMS): 38.95

SAMPLE WEIGHT AFTER WASH (GRAMS): 33.74

| DAM LIL                                                         | MILCHI                                                                          | 111 1 111 11110                                                            | ( ) .                                                             |                                                  |                                                                                         |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                   | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                             | RETAINED<br>(GRAMS)                                               |                                                  | PASSED<br>(%)                                                                           |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0 | 8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355 | .00<br>.66<br>.76<br>1.20<br>2.05<br>3.03<br>4.29<br>6.08<br>7.77 | 5.26<br>7.78<br>11.01<br>15.61<br>19.95<br>28.68 | 100.00<br>98.31<br>98.05<br>96.92<br>94.74<br>92.22<br>88.99<br>84.39<br>80.05<br>71.32 |
| 80<br>120<br>170<br>200<br>230<br>PAN                           | 2.5<br>3.0<br>3.5<br>3.75<br>4.0                                                | .125<br>.090<br>.075<br>.063                                               | 24.71<br>31.65<br>33.29<br>36.22<br>38.90                         | 63.44<br>81.26<br>85.47<br>93.00<br>99.87        | 58.82<br>36.56<br>18.74<br>14.53<br>7.00<br>.13                                         |
| PHI(50                                                          | :56<br>): 2.70<br>): 4.07                                                       | PHI                                                                        | (75): 3.32                                                        | PHI (2<br>PHI (8                                 | 4): 3.66                                                                                |
| SIEVE<br>SKEWNE                                                 |                                                                                 | : .05<br>722                                                               |                                                                   | SILT/CLAY<br>KURTOSIS                            |                                                                                         |
| MEAN (                                                          | C METHO PHI): 2 mm) : MEAN WA                                                   | .18<br>.22                                                                 |                                                                   | SORTING<br>MEDIAN (mm)<br>POINT METH             | : .15                                                                                   |
| MEAN (                                                          | METHOD PHI): 2 mm):                                                             | .24                                                                        |                                                                   | SORTING                                          | : 1.36                                                                                  |

MEAN (mm) : .21

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DATA FILE NAME: VC9620-3.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-21-1

SAMPLE ELEV. (FT. NGVD): -73.2

SAMPLE DEPTH (FT.): -1.7 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.26

|                                                                                            |                                                                                                | AFTER WASH     |                                                                                                               |                                        |                                                                                                                           |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                           | RETAINED<br>(%)                        | PASSED<br>(%)                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | .075           | .00<br>.00<br>.08<br>.28<br>.67<br>1.28<br>3.03<br>7.61<br>13.87<br>27.08<br>40.01<br>52.94<br>56.38<br>56.55 |                                        | 100.00<br>100.00<br>99.86<br>99.52<br>98.85<br>97.80<br>94.80<br>86.94<br>76.19<br>53.52<br>31.33<br>9.13<br>3.23<br>2.94 |
| PAN                                                                                        | 4.0                                                                                            | .063           | 57.38<br>58.20                                                                                                |                                        | 1.52<br>.10                                                                                                               |
| PHI (50                                                                                    | : .47<br>): 2.08<br>): 3.35                                                                    | PHI(<br>PHI(   | (16): 1.14<br>(75): 2.64                                                                                      | PHI (25<br>PHI (84                     | 5): 1.53<br>4): 2.85                                                                                                      |
| SIEVE SKEWNE                                                                               |                                                                                                | : .06<br>200   |                                                                                                               | SILT/CLAY:<br>KURTOSIS                 |                                                                                                                           |
| MEAN (                                                                                     | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                          | .98<br>.25     |                                                                                                               | SORTING<br>(MEDIAN (MM)<br>POINT METHO | .24                                                                                                                       |
| MEAN (                                                                                     | METHOD<br>PHI): 1<br>mm):                                                                      |                |                                                                                                               | SORTING                                | .86                                                                                                                       |
| D3003 E                                                                                    | TT 13 31334                                                                                    | T. TOO 601     | כו גיווו                                                                                                      |                                        |                                                                                                                           |

DATA FILE NAME: VC9621-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

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SAMPLE NO.: VC96-22-1

SAMPLE ELEV. (FT. NGVD): -68.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 43.64

SAMPLE WEIGHT AFTER WASH (GRAMS): 41.64

| SAMPLE                                 | WEIGHI                                          | AFIER WASH                                              | (GRAMD).                                                     | 41.04                                                  |                                                             |
|----------------------------------------|-------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|
| SIEVE<br>SIZE                          | PHI<br>SIZE                                     | MESH SIZE (mm)                                          | RETAINED<br>(GRAMS)                                          | RETAINED<br>(%)                                        | PASSED<br>(%)                                               |
| 5/8<br>5/16<br>5<br>7                  | -4.0<br>-3.0<br>-2.0<br>-1.5                    | 16.000<br>8.000<br>4.000<br>2.800                       | .00<br>.00<br>.23                                            | .00<br>.00<br>.53                                      | 100.00<br>100.00<br>99.47<br>99.04                          |
| 10<br>14<br>18<br>25<br>35<br>45<br>60 | -1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0 | 2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250 | .89<br>1.56<br>2.18<br>3.02<br>4.20<br>5.61<br>9.44<br>20.84 | 2.04<br>3.57<br>5.00<br>6.92<br>9.62<br>12.86<br>21.63 | 97.96<br>96.43<br>95.00<br>93.08<br>90.38<br>87.14<br>78.37 |
| 80<br>120<br>170<br>200<br>230<br>PAN  | 3.0<br>3.5<br>3.75<br>4.0                       | .180<br>.125<br>.090<br>.075<br>.063                    | 20.84<br>36.79<br>41.05<br>41.47<br>42.58<br>43.60           | 47.75<br>84.30<br>94.07<br>95.03<br>97.57<br>99.91     | 52.25<br>15.70<br>5.93<br>4.97<br>2.43<br>.09               |
| PHI (50)                               | : .00<br>): 2.53<br>): 3.74                     |                                                         | 16): 1.68<br>75): 2.87                                       |                                                        | 5): 2.06<br>4): 3.00                                        |
| SIEVE SKEWNES                          | ss:                                             | : .04<br>-1.001                                         |                                                              | SILT/CLAY<br>KURTOSIS                                  |                                                             |
| MEAN (1                                | C METHO PHI): 2 mm): MEAN WA                    | .19                                                     |                                                              | SORTING<br>MEDIAN (mm)<br>POINT METH                   | : .17                                                       |
| MEAN (                                 | METHOD<br>PHI): 2<br>mm):                       | .27                                                     |                                                              | SORTING                                                | : 1.02                                                      |

DATA FILE NAME: VC9622-1.TAB

BROWARD COUNTY VIBRACORES 9/96

TESTED BY: SK ON: 9/96

SAMPLE NO.: VC96-22-2

SAMPLE ELEV. (FT. NGVD): -73.5

SAMPLE DEPTH (FT.): -6.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 52.18

SAMPLE WEIGHT AFTER WASH (GRAMS): 49.04

| SAMPLE                                              | METGUI                                                     | AFIER W   | IASH I                                 | (Grand)                                       | , •                                    | 49.0                                          | 4                                      |                             |                                                              |
|-----------------------------------------------------|------------------------------------------------------------|-----------|----------------------------------------|-----------------------------------------------|----------------------------------------|-----------------------------------------------|----------------------------------------|-----------------------------|--------------------------------------------------------------|
| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SI   | ZE I                                   | RETAINI<br>(GRAM:                             |                                        | RETAI<br>(%                                   |                                        | PASS                        | SED                                                          |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 |           | 000<br>000<br>800<br>000<br>400        |                                               | 52<br>06<br>09<br>44<br>54             | •                                             | 03<br>01<br>59<br>62                   | 100<br>99<br>99<br>91<br>91 | 0.00<br>0.00<br>9.79<br>9.00<br>7.97<br>5.99<br>3.41<br>9.38 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0             | .(        | 355<br>250<br>180<br>125<br>090<br>075 | 11.<br>17.<br>28.<br>44.<br>48.<br>48.<br>50. | 79<br>31<br>40<br>31<br>43<br>87<br>52 | 22.<br>33.<br>54.<br>84.<br>92.<br>93.<br>96. | 59<br>17<br>43<br>92<br>81<br>66<br>82 | 7'<br>6'<br>4!<br>1         | 7.41<br>6.83<br>5.57<br>5.08<br>7.19<br>6.34<br>3.18         |
| PHI (50                                             | :31<br>): 2.40<br>): 3.86                                  | ]         |                                        | 6): .<br>5): 2.                               |                                        |                                               | PHI (25<br>PHI (84                     |                             |                                                              |
| SIEVE :                                             | LOSS(g)<br>SS:                                             | 06<br>603 |                                        |                                               | ~                                      | SILT/<br>KURT                                 | CLAY:                                  |                             | .34%<br>.395                                                 |
| MEAN (                                              | C METHO PHI): 1 mm): MEAN WA                               | .97       | LATED                                  | USING                                         |                                        | EDIAN                                         |                                        | }                           | 1.03<br>.19                                                  |
| MEAN (                                              | METHOD<br>PHI): 2<br>mm):                                  | .05       |                                        |                                               |                                        | SOF                                           | RTING                                  |                             | 1.13                                                         |

DATA FILE NAME: VC9622-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-38-1

SAMPLE ELEV. (FT. NGVD): -39.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 79.54

SAMPLE WEIGHT AFTER WASH (GRAMS): 77.42

| SAMPLE        | WEIGHT       | AFTER WASH      | (GRAMS):            | 11.42           |               |
|---------------|--------------|-----------------|---------------------|-----------------|---------------|
| SIEVE<br>SIZE | PHI<br>SIZE  | MESH SIZE (mm)  | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
| 5/8<br>5/16   | -4.0<br>-3.0 | 16.000<br>8.000 | .00                 | .00             | 100.00        |
| 5             | -2.0         | 4.000           | .20                 | .25             | 99.75         |
| 7             | -1.5         | 2.800           | .38                 | .48             | 99.52         |
| 10            | -1.0         | 2.000           | .93                 | 1.17            | 98.83         |
| 14            | -0.5         | 1.400           | 2.65                | 3.33            | 96.67         |
| 18            | 0.0          | 1.000           | 5.49                | 6.90            | 93.10         |
| 25            | 0.5          | .710            | 11.73               | 14.75           | 85.25         |
| 35            | 1.0          |                 | 21.34               | 26.83           | 73.17         |
| 45            | 1.5          |                 | 29.86               | 37.54           | 62.46         |
| 60            | 2.0          |                 | 49.07               | 61.69           | 38.31         |
| 80            | 2.5          |                 | 69.93               | 87.92           | 12.08         |
| 120           | 3.0          |                 | 76.50               | 96.18           | 3.82          |
| 170           | 3.5          |                 | 77.27               | 97.15           | 2.85          |
| 200           | 3.75         |                 | 77.33               | 97.22           | 2.78          |
| 230           | 4.0          | .063            | 78.41               | 98.58           | 1.42          |
| PAN           |              |                 | 79.49               | 99.94           | .06           |
| PHI(5)        | :27          | PHI(            | 16): .55            | PHI(25          | ): .92        |
|               | ): 1.76      |                 | 75): 2.25           | •               | ): 2.43       |
|               | ): 2.93      |                 | •                   | •               | •             |
|               |              |                 |                     |                 |               |
|               | Loss (g)     |                 |                     | SILT/CLAY:      |               |
| SKEWNE        | ss:          | 456             |                     | KURTOSIS:       | .985          |
| CDADUT        | C METHO      | D               |                     |                 |               |
|               | PHI): 1      |                 |                     | SORTING:        | .94           |
|               | mm) :        |                 | 7                   | MEDIAN (mm):    |               |
|               |              |                 |                     | POINT METHO     |               |
|               |              |                 |                     |                 |               |
| MOMENT        | METHOD       |                 |                     |                 |               |
|               | PHI): 1      |                 |                     | SORTING:        | .97           |
|               | mm) :        |                 |                     |                 |               |
|               |              |                 |                     |                 |               |
|               |              | T . TTOO COO 4  | m 3 D               |                 |               |

DATA FILE NAME: VC9638-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-38-2

SAMPLE ELEV. (FT. NGVD): -42.3

SAMPLE DEPTH (FT.): -3.8 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.10

SAMPLE WEIGHT AFTER WASH (GRAMS): 67.44

| SIEVE<br>SIZE                                             | PHI<br>SIZE                                                                     | MESH SIZE (mm)                                                                       | RETAINED<br>(GRAMS)                                                                   | RETAINED<br>(%)                                                                         | PASSED<br>(%)                                                                                     |
|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355 | .00<br>.00<br>.92<br>1.78<br>3.08<br>5.51<br>8.59<br>13.96<br>20.88<br>26.49<br>40.02 | .00<br>.00<br>1.33<br>2.58<br>4.46<br>7.97<br>12.43<br>20.20<br>30.22<br>38.34<br>57.92 | 100.00<br>100.00<br>98.67<br>97.42<br>95.54<br>92.03<br>87.57<br>79.80<br>69.78<br>61.66<br>42.08 |
| 80<br>120<br>170<br>200<br>230<br>PAN                     | 2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0                                         | .250<br>.180<br>.125<br>.090<br>.075<br>.063                                         | 58.04<br>66.24<br>67.29<br>67.35<br>68.20<br>69.04                                    | 97.92<br>83.99<br>95.86<br>97.38<br>97.47<br>98.70<br>99.91                             | 42.08<br>16.01<br>4.14<br>2.62<br>2.53<br>1.30<br>.09                                             |
| PHI(5):<br>PHI(50)<br>PHI(95)                             | : 1.80                                                                          |                                                                                      | 16): .23<br>75): 2.33                                                                 |                                                                                         | 5): .74<br>4): 2.50                                                                               |
| SIEVE L                                                   |                                                                                 | .06<br>685                                                                           |                                                                                       | SILT/CLAY<br>KURTOSIS                                                                   |                                                                                                   |
| •                                                         | HI): 1 m):                                                                      | .31<br>.40                                                                           |                                                                                       | SORTING<br>MEDIAN (mm)<br>POINT METH                                                    | : .29                                                                                             |
| MOMENT<br>MEAN (P<br>MEAN (m                              |                                                                                 |                                                                                      |                                                                                       | SORTING                                                                                 | : 1.21                                                                                            |

DATA FILE NAME: VC9638-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 10/96

\_\_\_\_\_\_

SAMPLE NO.: VC96-40-1

SAMPLE ELEV. (FT. NGVD): -37.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.82

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.60

| SAMPLE                                                                              | WEIGHT                                                                                 | AFTER WA                                                                          | SR (GRAMS)                                                                                                  | 55.60                                                                                                                 |                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                            | MESH SIZ<br>(mm)                                                                  | E RETAINEI<br>(GRAMS)                                                                                       |                                                                                                                       | PASSED<br>(%)                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.0<br>2.5<br>3.0 | 16.00<br>8.00<br>4.00<br>2.80<br>2.00<br>1.40<br>1.00<br>.71<br>.50<br>.35<br>.25 | 0 .00<br>0 .10<br>0 .3<br>0 1.0<br>0 2.7<br>0 5.3<br>0 11.0<br>0 20.3<br>5 26.8<br>0 37.2<br>49.1<br>5 54.8 | 0 .00<br>.18<br>1 .55<br>5 1.85<br>1 4.77<br>2 9.36<br>1 19.38<br>0 35.73<br>7 47.29<br>2 65.51<br>2 86.45<br>3 96.50 | 100.00<br>100.00<br>99.82<br>99.45<br>98.15<br>95.23<br>90.64<br>80.62<br>64.27<br>52.71<br>34.49<br>13.55<br>3.50<br>2.29 |
| 200<br>230<br>PAN                                                                   | 3.75<br>4.0                                                                            | .07<br>.06                                                                        | 55.5                                                                                                        | 4 97.75<br>6 98.84                                                                                                    | 2.25<br>1.16<br>.05                                                                                                        |
| PHI(50                                                                              | :47<br>): 1.57<br>): 2.93                                                              | PH<br>PH                                                                          | II(16): .3<br>II(75): 2.2                                                                                   |                                                                                                                       | 25): .67<br>34): 2.44                                                                                                      |
| SIEVE :                                                                             | LOSS(g)<br>SS:                                                                         | : .03<br>331                                                                      |                                                                                                             | SILT/CLA<br>KURTOSI                                                                                                   |                                                                                                                            |
| MEAN (                                                                              | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                  | .36<br>.39                                                                        | ATED USING                                                                                                  | SORTING MEDIAN (mm 5 POINT MET                                                                                        | .34                                                                                                                        |
| MEAN (                                                                              | METHOD<br>PHI): 1<br>mm):                                                              | .40                                                                               |                                                                                                             | SORTIN                                                                                                                | G: 1.05                                                                                                                    |

DATA FILE NAME: VC9640-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-40-2

SAMPLE ELEV. (FT. NGVD): -39.5

SAMPLE DEPTH (FT.): -3.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 64.01

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.89

|                                                                                     | ***************************************                                                |                                                                                                              | (010115)                                                                                                   |                                      |                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                            | MESH SIZE (mm)                                                                                               | RETAINED<br>(GRAMS)                                                                                        |                                      | PASSED<br>(%)                                                                                                      |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125 | .00<br>.00<br>.03<br>.07<br>.22<br>.45<br>.82<br>1.92<br>5.39<br>10.86<br>27.98<br>51.56<br>61.96<br>62.80 | 16.97<br>43.71<br>80.55<br>96.80     | 100.00<br>100.00<br>99.95<br>99.89<br>99.66<br>99.30<br>98.72<br>97.00<br>91.58<br>83.03<br>56.29<br>19.45<br>3.20 |
| 200<br>230<br>PAN                                                                   | 3.75<br>4.0                                                                            |                                                                                                              | 62.83<br>63.39<br>63.95                                                                                    | 98.16<br>99.03                       | 1.84<br>.97<br>.09                                                                                                 |
| PHI (50                                                                             | : .68<br>): 2.09<br>): 2.94                                                            | •                                                                                                            | 16): 1.44<br>75): 2.42                                                                                     | •                                    | 5): 1.65<br>4): 2.61                                                                                               |
| SIEVE :                                                                             | LOSS(g)<br>SS:                                                                         | : .06<br>466                                                                                                 |                                                                                                            | SILT/CLAY<br>KURTOSIS                |                                                                                                                    |
| MEAN (                                                                              | C METHO PHI): 1 mm): MEAN WA                                                           | .95<br>.26                                                                                                   |                                                                                                            | SORTING<br>MEDIAN (mm)<br>POINT METH | : .24                                                                                                              |
| MEAN (                                                                              | METHOD<br>PHI): 1<br>mm):                                                              | .98                                                                                                          |                                                                                                            | SORTING                              | .69                                                                                                                |
| 12 2 CE 2 TO                                                                        | TT 177 37736                                                                           | T. T.CO.C.4.O. 3                                                                                             | . מגווו                                                                                                    |                                      |                                                                                                                    |

DATA FILE NAME: VC9640-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-41-1

SAMPLE ELEV. (FT. NGVD): -35.5

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 55.62

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.92

| SWILTE                                                                                     | WEIGHT                                                                                         | ALIEN MAD                                                                                            | ii (didnib).                                                                                         | 34.72                                                                                                  |                                                                                                                                     |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                       | RETAINED<br>(GRAMS)                                                                                  |                                                                                                        | PASSED<br>(%)                                                                                                                       |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180 | .00<br>.01<br>.08<br>.30<br>.72<br>1.90<br>5.35<br>9.71<br>23.90<br>44.20<br>53.85<br>54.82<br>54.85 | .00<br>.02<br>.14<br>.54<br>1.29<br>3.42<br>9.62<br>17.46<br>42.97<br>79.47<br>96.82<br>98.56<br>98.62 | 100.00<br>100.00<br>100.00<br>99.98<br>99.86<br>99.46<br>98.71<br>96.58<br>90.38<br>82.54<br>57.03<br>20.53<br>3.18<br>1.44<br>1.38 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063                                                                                                 | 55.21<br>55.57                                                                                       |                                                                                                        | .74                                                                                                                                 |
| PHI (50                                                                                    | : .63<br>): 2.10<br>): 2.95                                                                    |                                                                                                      | (16): 1.41<br>(75): 2.44                                                                             |                                                                                                        | 25): 1.65<br>84): 2.63                                                                                                              |
| SIEVE :                                                                                    | LOSS(g)<br>SS:                                                                                 | : .05<br>505                                                                                         |                                                                                                      | SILT/CLA<br>KURTOSI                                                                                    |                                                                                                                                     |
| MEAN (                                                                                     | C METHO PHI): 1 mm): MEAN WA                                                                   | .94<br>.26                                                                                           | PED USING 5                                                                                          | SORTIN<br>MEDIAN (mm<br>POINT MET                                                                      | 1): .23                                                                                                                             |
| MEAN (                                                                                     | METHOD<br>PHI): 1<br>mm) :                                                                     | .99                                                                                                  |                                                                                                      | SORTIN                                                                                                 | IG: .69                                                                                                                             |
|                                                                                            |                                                                                                |                                                                                                      |                                                                                                      |                                                                                                        |                                                                                                                                     |

DATA FILE NAME: VC9641-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 10/96

SAMPLE NO.: VC96-56-1

SAMPLE ELEV. (FT. NGVD): -45.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 61.15

SAMPLE WEIGHT AFTER WASH (GRAMS): 59.95

| SAMPLE                                                                              | WEIGHT                                                                                 | AFTER                      | WASH                                                                                         | (GRAMS)                                                 | ) <b>:</b>                                         | 59 <b>.</b> 95                                                                                                 |     |                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                       | PHI<br>SIZE                                                                            | MESH (mm)                  |                                                                                              | RETAINI<br>(GRAMS                                       |                                                    | RETAINED                                                                                                       |     | SSED<br>(%)                                                                                                              |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5 | 8<br>4<br>2<br>2<br>1<br>1 | .000<br>.000<br>.000<br>.800<br>.000<br>.400<br>.000<br>.710<br>.500<br>.355<br>.250<br>.180 | 1.0<br>2.9<br>5.1<br>8.0<br>10.9<br>15.1<br>32.0<br>56. | 26<br>65<br>97<br>54<br>69<br>51<br>51<br>89<br>74 | .00<br>.00<br>.21<br>.43<br>1.13<br>2.70<br>4.86<br>9.06<br>14.21<br>17.84<br>25.36<br>53.79<br>92.43<br>97.69 | 1   | 00.00<br>00.00<br>99.79<br>99.57<br>98.87<br>97.30<br>95.14<br>90.94<br>85.79<br>82.16<br>74.64<br>46.21<br>7.57<br>2.31 |
| 200<br>230<br>PAN                                                                   | 3.75                                                                                   |                            | .075<br>.063                                                                                 | 59.<br>60.<br>61.                                       | 49                                                 | 97.91<br>98.92<br>99.92                                                                                        |     | 2.09<br>1.08<br>.08                                                                                                      |
| PHI (50                                                                             | : .02<br>): 2.43<br>): 3.24                                                            |                            |                                                                                              | 16): 1.<br>75): 2.                                      |                                                    | PHI<br>PHI                                                                                                     |     | 1.98                                                                                                                     |
| SIEVE<br>SKEWNE                                                                     | LOSS(g)<br>SS:                                                                         | : .0<br>97                 |                                                                                              |                                                         |                                                    | SILT/CL                                                                                                        |     | 2.09%                                                                                                                    |
| MEAN (                                                                              | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                  | .97<br>.26                 | ULATE                                                                                        | D USING                                                 |                                                    | SORTII<br>EDIAN (mi<br>POINT ME                                                                                | m): | .82<br>.19                                                                                                               |
| MEAN (                                                                              | METHOD<br>PHI): 2<br>mm):                                                              | .13                        |                                                                                              |                                                         |                                                    | SORTI                                                                                                          | NG: | .98                                                                                                                      |
|                                                                                     |                                                                                        |                            |                                                                                              | m 3 D                                                   |                                                    |                                                                                                                |     |                                                                                                                          |

DATA FILE NAME: VC9656-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-57-1

SAMPLE ELEV. (FT. NGVD): -42.5 SAMPLE DEPTH (FT.): -1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.54

SAMPLE WEIGHT AFTER WASH (GRAMS): 52.66

| SMITTE        | WEIGHT       | WLITH MWDI        | i (GKAMB).          | 52.00                 |                                         |
|---------------|--------------|-------------------|---------------------|-----------------------|-----------------------------------------|
| SIEVE<br>SIZE | PHI<br>SIZE  | MESH SIZE<br>(mm) | RETAINED<br>(GRAMS) |                       | PASSED (%)                              |
| 5/8           | -4.0<br>-3.0 | 16.000            | .00                 |                       | 100.00                                  |
| 5/16          | -2.0         | 8.000             | .00                 |                       | 100.00                                  |
| 5<br>7        | -1.5         | 4.000<br>2.800    | .00                 |                       | 100.00                                  |
| 10            | -1.0         | 2.000             | .27                 |                       | 99.78<br>99.50                          |
| 14            | -0.5         | 1.400             | .82                 |                       | 98.47                                   |
| 18            | 0.0          | 1.000             | 1.81                |                       | 96.62                                   |
| 25            | 0.5          | .710              | 3.75                |                       | 93.00                                   |
| 35            | 1.0          | .500              | 6.92                |                       | 87.08                                   |
| 45            | 1.5          | .355              | 9.39                |                       | 82.46                                   |
| 60            | 2.0          | .250              | 14.90               |                       | 72.17                                   |
| 80            | 2.5          | .180              | 31.54               |                       | 41.09                                   |
| 120           | 3.0          | .125              | 50.10               | 93.57                 | 6.43                                    |
| 170           | 3.5          | .090              | 52.45               | 97.96                 | 2.04                                    |
| 200           | 3.75         | .075              | 52.61               |                       | 1.74                                    |
| 230           | 4.0          | .063              | 53.09               |                       | .84                                     |
| PAN           |              |                   | 53.54               | 100.00                | .00                                     |
| PHI (5)       | : .22        | PHT               | (16): 1.33          | PHT (2                | 5): 1.86                                |
|               | ): 2.36      |                   | (75): 2.73          | •                     | 4): 2.86                                |
|               | ): 3.16      |                   | (,.                 |                       | 2,1 2100                                |
| CTEVE         | LOSS(g)      | : .00             |                     | CTTM /OT 3            | 7. 1. 7.49                              |
| SKEWNE        |              | 868               |                     | SILT/CLAY<br>KURTOSIS |                                         |
|               |              |                   |                     | VOKIODIS              | 1.303                                   |
| GRAPHI        | C METHO      | D                 |                     |                       |                                         |
|               | PHI): 1      | .99               |                     | SORTING               | .76                                     |
|               |              | .25               |                     | MEDIAN (mm)           |                                         |
| NOTE: 1       | MEAN WA      | S CALCULAT        | ED USING 5          | POINT METH            | IOD                                     |
| MOMENT        | METHOD       |                   |                     |                       |                                         |
|               | PHI): 2      | 13                |                     | SORTING               | .88                                     |
| •             | mm) :        |                   |                     | DONTING               | • • • • • • • • • • • • • • • • • • • • |
|               |              | · ·               |                     |                       |                                         |
| DATA F        | TIE NAM      | E: VC9657-        | 1.TAB               |                       |                                         |

DATA FILE NAME: VC9657-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-57-2

SAMPLE ELEV. (FT. NGVD): -44.5

SAMPLE DEPTH (FT.): -3.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 58.43
SAMPLE WEIGHT AFTER WASH (GRAMS): 57.50

| SAMPLE                                                                       | WEIGHT                                                                                 | AFTER WASH                                                                                           | (GRAMS):                                                                                                | 57.50                                                                                            |                                                                                                                    |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                | PHI<br>SIZE                                                                            | MESH SIZE (mm)                                                                                       | RETAINED<br>(GRAMS)                                                                                     | RETAINED (%)                                                                                     | PASSED<br>(%)                                                                                                      |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.0<br>2.5<br>3.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180 | .00<br>.00<br>.83<br>1.44<br>2.25<br>4.08<br>6.93<br>11.45<br>16.46<br>19.37<br>24.27<br>38.99<br>55.02 | .00<br>.00<br>1.42<br>2.46<br>3.85<br>6.98<br>11.86<br>19.60<br>28.17<br>33.15<br>41.54<br>66.73 | 100.00<br>100.00<br>98.58<br>97.54<br>96.15<br>93.02<br>88.14<br>80.40<br>71.83<br>66.85<br>58.46<br>33.27<br>5.84 |
| 170<br>200<br>230<br>PAN                                                     | 3.5<br>3.75<br>4.0                                                                     | .090<br>.075<br>.063                                                                                 | 57.24<br>57.37<br>57.85<br>58.35                                                                        | 97.96<br>98.19<br>99.02<br>99.86                                                                 | 2.04<br>1.81<br>.98                                                                                                |
| PHI (50                                                                      | :82<br>): 2.17<br>): 3.11                                                              |                                                                                                      | 16): .27<br>75): 2.65                                                                                   | •                                                                                                | 5): .82<br>4): 2.81                                                                                                |
| SIEVE<br>SKEWNE                                                              | LOSS(g)<br>SS:                                                                         | : .08<br>802                                                                                         |                                                                                                         | SILT/CLAY<br>KURTOSIS                                                                            |                                                                                                                    |
| MEAN (                                                                       | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                  | .51                                                                                                  |                                                                                                         | SORTING<br>MEDIAN (mm)<br>POINT METH                                                             | : .22                                                                                                              |
| MEAN (                                                                       | METHOD<br>PHI): 1<br>mm):                                                              |                                                                                                      |                                                                                                         | SORTING                                                                                          | : 1.29                                                                                                             |
|                                                                              |                                                                                        |                                                                                                      |                                                                                                         |                                                                                                  |                                                                                                                    |

DATA FILE NAME: VC9657-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-58-1

SAMPLE ELEV. (FT. NGVD): -38.8

SAMPLE DEPTH (FT.): -0.8 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.93

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.93

| SAMPLE                                                                                     | WEIGHT                                                                                         | APIEK WADII    | (GIGINIO).                                                                                                                | 02.93                                                                                                                      |                                                                                                                           |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                                       | RETAINED<br>(%)                                                                                                            | PASSED<br>(%)                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 |                | .00<br>.00<br>.78<br>1.08<br>1.54<br>3.15<br>6.29<br>13.47<br>25.76<br>37.70<br>54.27<br>61.15<br>62.66<br>62.83<br>62.87 | .00<br>.00<br>1.22<br>1.69<br>2.41<br>4.93<br>9.84<br>21.07<br>40.29<br>58.97<br>84.89<br>95.65<br>98.01<br>98.28<br>98.34 | 100.00<br>100.00<br>98.78<br>98.31<br>97.59<br>95.07<br>90.16<br>78.93<br>59.71<br>41.03<br>15.11<br>4.35<br>1.99<br>1.72 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063           | 63.38<br>63.88                                                                                                            | 99.14<br>99.92                                                                                                             | .86                                                                                                                       |
| PHI (50                                                                                    | :49<br>): 1.26<br>): 2.47                                                                      |                | 16): .27<br>75): 1.81                                                                                                     | PHI(2<br>PHI(8                                                                                                             | 5): .60<br>4): 1.98                                                                                                       |
| SIEVE<br>SKEWNE                                                                            | LOSS(g)<br>SS:                                                                                 | : .05<br>318   |                                                                                                                           | SILT/CLAY<br>KURTOSIS                                                                                                      |                                                                                                                           |
| MEAN (                                                                                     | C METHO PHI): 1 mm) : MEAN WA                                                                  | .10            |                                                                                                                           | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                       | : .42                                                                                                                     |
| MEAN (                                                                                     | METHOD<br>PHI): 1<br>mm) :                                                                     | .14            |                                                                                                                           | SORTING                                                                                                                    | .96                                                                                                                       |

DATA FILE NAME: VC9658-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-62-1

SAMPLE ELEV. (FT. NGVD): -72.0

SAMPLE DEPTH (FT.): -2.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.71
SAMPLE WEIGHT AFTER WASH (GRAMS):

| SAMPLE                                                                                                   | WEIGHT                                                                                                              | AFTER WASH                                                                                                                   | (GRAMS):                                                                                                                                    | 78.53                                                                                                                                        |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                                         | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                                                         | RETAINED (%)                                                                                                                                 | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.00<br>.23<br>.95<br>2.02<br>4.65<br>10.01<br>21.15<br>37.21<br>49.02<br>64.32<br>73.66<br>77.55<br>78.29<br>78.40<br>79.51<br>80.62 | .00<br>.00<br>.28<br>1.18<br>2.50<br>5.76<br>12.40<br>26.20<br>46.10<br>60.74<br>79.69<br>91.27<br>96.08<br>97.00<br>97.14<br>98.51<br>99.89 | 100.00<br>100.00<br>99.72<br>98.82<br>97.50<br>94.24<br>87.60<br>73.80<br>53.90<br>39.26<br>20.31<br>8.73<br>3.92<br>3.00<br>2.86<br>1.49 |
| PHI(5)                                                                                                   | :62<br>): 1.13<br>): 2.89                                                                                           |                                                                                                                              | 16): .13<br>75): 1.88                                                                                                                       | PHI(2                                                                                                                                        | 5): .46<br>4): 2.19                                                                                                                       |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)<br>SS:                                                                                                      | .09<br>.002                                                                                                                  |                                                                                                                                             | SILT/CLAY<br>KURTOSIS                                                                                                                        |                                                                                                                                           |
| MEAN (                                                                                                   | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                                               | .14                                                                                                                          |                                                                                                                                             | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                                                         | : .46                                                                                                                                     |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm):                                                                                           |                                                                                                                              |                                                                                                                                             | SORTING                                                                                                                                      | : 1.04                                                                                                                                    |
|                                                                                                          |                                                                                                                     |                                                                                                                              |                                                                                                                                             |                                                                                                                                              |                                                                                                                                           |

DATA FILE NAME: VC9662-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-62-2

SAMPLE ELEV. (FT. NGVD): -75.5 SAMPLE DEPTH (FT.): -5.5

SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 57.50

SAMPLE WEIGHT AFTER WASH (GRAMS): 55.65

| SIEVE<br>SIZE                                                 | PHI<br>SIZE                                                  | MESH SIZE (mm)                                               | RETAINED<br>(GRAMS)                                                                    |                                                                                        | PASSED<br>(%)                                                             |
|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18                       | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5                 | 4.000<br>2.800<br>2.000<br>1.400<br>1.000                    | .00<br>.00<br>.18<br>.27<br>.71<br>2.16<br>4.64                                        | .00<br>.00<br>.31<br>.47<br>1.23<br>3.76<br>8.07                                       | 100.00<br>100.00<br>99.69<br>99.53<br>98.77<br>96.24<br>91.93             |
| 25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | 0.5<br>1.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | .710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | 10.35<br>19.78<br>27.85<br>38.99<br>48.27<br>54.20<br>55.32<br>55.46<br>56.40<br>57.39 | 18.00<br>34.40<br>48.43<br>67.81<br>83.95<br>94.26<br>96.21<br>96.45<br>98.10<br>99.81 | 82.00<br>65.60<br>51.57<br>32.19<br>16.05<br>5.74<br>3.79<br>3.55<br>1.90 |
| PHI (50)                                                      | :36<br>): 1.54<br>): 3.19                                    |                                                              | 16): .40<br>75): 2.22                                                                  |                                                                                        | 5): .71<br>4): 2.50                                                       |
| SIEVE I                                                       |                                                              | : .11<br>117                                                 |                                                                                        | SILT/CLAY                                                                              |                                                                           |
| MEAN (1<br>MEAN (1                                            | C METHO:<br>PHI): 1<br>mm) :<br>MEAN WA                      | .46<br>.36                                                   |                                                                                        | SORTING<br>MEDIAN (mm)<br>POINT METHO                                                  | .34                                                                       |
| MEAN (                                                        | METHOD<br>PHI): 1<br>mm) :                                   | .42                                                          |                                                                                        | SORTING                                                                                | : 1.04                                                                    |

DATA FILE NAME: VC9662-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-62-3

SAMPLE ELEV. (FT. NGVD): -78.0

SAMPLE DEPTH (FT.): -8.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 60.84

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.46

| SHMPLLE                                                                      | MEIGHI                                                                                 | WLITH AVOIL    | (GIGHID).                                                                                                 | 30.40                                                                                                      |                                                                                                                    |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                | PHI<br>SIZE                                                                            | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                       | RETAINED<br>(%)                                                                                            | PASSED<br>(%)                                                                                                      |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5 |                | .00<br>.00<br>1.31<br>2.88<br>4.95<br>8.25<br>13.04<br>20.88<br>30.70<br>37.04<br>44.02<br>50.62<br>56.31 | .00<br>.00<br>2.15<br>4.73<br>8.14<br>13.56<br>21.43<br>34.32<br>50.46<br>60.88<br>72.35<br>83.20<br>92.55 | 100.00<br>100.00<br>97.85<br>95.27<br>91.86<br>86.44<br>78.57<br>65.68<br>49.54<br>39.12<br>27.65<br>16.80<br>7.45 |
| 170<br>200<br>230<br>PAN                                                     | 3.5<br>3.75<br>4.0                                                                     | .090<br>.075   | 57.86<br>58.15<br>59.41<br>60.70                                                                          | 95.10<br>95.58                                                                                             | 4.90<br>4.42<br>2.35<br>.23                                                                                        |
| PHI (50                                                                      | : -1.46<br>): .99<br>): 3.48                                                           | PHI(           | 16):35<br>75): 2.12                                                                                       | PHI (2<br>PHI (8                                                                                           | 25): .14<br>34): 2.54                                                                                              |
| SIEVE<br>SKEWNE                                                              | LOSS(g)<br>SS:                                                                         | : .14<br>.016  |                                                                                                           | SILT/CLAY<br>KURTOSIS                                                                                      |                                                                                                                    |
| MEAN (                                                                       | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                  | .04            |                                                                                                           | SORTING<br>MEDIAN (mm)<br>POINT METH                                                                       | .50                                                                                                                |
| MEAN (                                                                       | METHOD PHI): mm):                                                                      | .99            |                                                                                                           | SORTING                                                                                                    | G: 1.38                                                                                                            |
|                                                                              |                                                                                        |                | PP 3 PS                                                                                                   |                                                                                                            |                                                                                                                    |

DATA FILE NAME: VC9662-3.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-62-4

SAMPLE ELEV. (FT. NGVD): -81.0

SAMPLE DEPTH (FT.): -11.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 68.32

SAMPLE WEIGHT AFTER WASH (GRAMS): 63.78

| SIEVE<br>SIZE                                                       | PHI<br>SIZE                                                         | MESH SIZE (mm)                                                        | RETAINED (GRAMS)                                                                              | RETAINED P. (%)                          | ASSED<br>(%)                                                                        |
|---------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10                                         | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0                                | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400                   | .00<br>.00<br>.66<br>1.21<br>2.17<br>3.91                                                     | .00<br>.97<br>1.77<br>3.18<br>5.72       | 100.00<br>100.00<br>99.03<br>98.23<br>96.82<br>94.28                                |
| 18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | 0.0<br>0.5<br>1.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | 1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | 5.93<br>8.85<br>12.74<br>16.30<br>23.18<br>34.33<br>54.33<br>62.06<br>63.36<br>65.93<br>68.28 | 79.52<br>90.84<br>92.74                  | 91.32<br>87.05<br>81.35<br>76.14<br>66.07<br>49.75<br>20.48<br>9.16<br>7.26<br>3.50 |
|                                                                     | :64<br>): 2.49<br>): 3.90                                           |                                                                       | (16): .77<br>(75): 2.92                                                                       |                                          |                                                                                     |
| SIEVE I                                                             | LOSS(g)<br>SS:                                                      | : .04<br>710                                                          |                                                                                               | SILT/CLAY:<br>KURTOSIS:                  |                                                                                     |
| MEAN (1<br>MEAN (1                                                  | C METHOPHI): 1 mm): MEAN WA                                         | .94<br>.26                                                            |                                                                                               | SORTING:<br>MEDIAN (mm):<br>POINT METHOD | .18                                                                                 |
| MEAN (                                                              | METHOD<br>PHI): 2<br>mm):                                           |                                                                       |                                                                                               | SORTING:                                 | 1.28                                                                                |

DATA FILE NAME: VC9662-4.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-62-5

SAMPLE ELEV. (FT. NGVD): -85.5

SAMPLE DEPTH (FT.): -13.5 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 59.35

|                                                                                                          |                                                                                                       | AFTER WASH     |                                                                                                                                   |                                      |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                           | MESH SIZE (mm) | RETAINED<br>(GRAMS)                                                                                                               | RETAINED<br>(%)                      | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0 | .090           | .00<br>.00<br>1.18<br>1.49<br>2.00<br>2.87<br>3.94<br>5.87<br>8.70<br>11.65<br>17.81<br>28.46<br>47.17<br>53.91<br>54.96<br>57.19 | 79.48<br>90.83<br>92.60<br>96.36     | 100.00<br>100.00<br>98.01<br>97.49<br>96.63<br>95.16<br>93.36<br>90.11<br>85.34<br>80.37<br>69.99<br>52.05<br>20.52<br>9.17<br>7.40<br>3.64 |
| PHI(5)<br>PHI(50                                                                                         | :45<br>): 2.53<br>): 3.91                                                                             | •              | 16): 1.13<br>75): 2.93                                                                                                            | PHI(2                                |                                                                                                                                             |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)                                                                                               | : .05<br>780   |                                                                                                                                   | SILT/CLAY<br>KURTOSIS                | 7.40%<br>1.528                                                                                                                              |
| MEAN (                                                                                                   | C METHO PHI): 2 mm): MEAN WA                                                                          | .06<br>.24     |                                                                                                                                   | SORTING<br>MEDIAN (mm)<br>POINT METH | : .17                                                                                                                                       |
| MEAN (                                                                                                   | METHOD<br>PHI): 2<br>mm):                                                                             | .13            |                                                                                                                                   | SORTING                              | : 1.25                                                                                                                                      |

DATA FILE NAME: VC9662-5.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-62-6

SAMPLE ELEV. (FT. NGVD): -87.0

SAMPLE DEPTH (FT.): -17.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 63.35

SAMPLE WEIGHT AFTER WASH (GRAMS): 58.99

| SAMPLE                                                                                            | WEIGHT                                                                                        | AFTER                | WASH                                                                                                  | (GRAMS                                                                            | ):<br>                                                         | 58.99                                                                                                                               |     |                                                                                                                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                                   | MESH S<br>(mm)       | IZE                                                                                                   | RETAIN:<br>(GRAM                                                                  |                                                                | RETAINEI<br>(%)                                                                                                                     |     | SSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 4.<br>2.<br>2.<br>1. | 000<br>000<br>000<br>800<br>000<br>400<br>000<br>710<br>500<br>355<br>250<br>180<br>125<br>090<br>075 | 1.<br>1.<br>2.<br>3.<br>4.<br>6.<br>10.<br>14.<br>20.<br>30.<br>49.<br>57.<br>58. | 53<br>21<br>27<br>47<br>61<br>26<br>97<br>37<br>43<br>76<br>07 | .00<br>.00<br>1.85<br>2.42<br>3.49<br>5.16<br>7.06<br>10.43<br>16.20<br>22.16<br>33.13<br>48.51<br>77.46<br>90.66<br>92.75<br>96.40 | 1   | 00.00<br>00.00<br>98.15<br>97.58<br>96.51<br>94.84<br>92.94<br>89.57<br>83.80<br>77.84<br>66.87<br>51.49<br>22.54<br>9.34<br>7.25<br>3.60 |
|                                                                                                   | :55): 2.53): 3.90                                                                             |                      |                                                                                                       | 63.<br>16): .<br>75): 2.                                                          | <br>98                                                         |                                                                                                                                     |     | .11<br><br>1.63<br>3.25                                                                                                                   |
| SIEVE :                                                                                           | LOSS(g)                                                                                       | : .07<br>749         |                                                                                                       |                                                                                   |                                                                | SILT/CL                                                                                                                             |     | 7.25%<br>1.374                                                                                                                            |
| MEAN (                                                                                            |                                                                                               | .02<br>.25           | LATE                                                                                                  | D USING                                                                           |                                                                | SORTII<br>MEDIAN (mi<br>POINT ME                                                                                                    | n): | 1.13                                                                                                                                      |
| MEAN (                                                                                            | METHOD<br>PHI): 2<br>mm) :                                                                    | .10<br>.23           |                                                                                                       |                                                                                   |                                                                | SORTI                                                                                                                               | NG: | 1.28                                                                                                                                      |

DATA FILE NAME: VC9662-6.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-68-1

SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

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USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 59.01

SAMPLE WEIGHT AFTER WASH (GRAMS): 53.72

| Other Da                                                  |                                                                          |                                                                                      |                                                                                 |                                                                                   |                                                                                                   |
|-----------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                             | PHI<br>SIZE                                                              | MESH SIZE (mm)                                                                       | RETAINED<br>(GRAMS)                                                             |                                                                                   | PASSED<br>(%)                                                                                     |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>1.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355 | .00<br>.00<br>.10<br>.27<br>.48<br>.86<br>1.20<br>1.99<br>3.93<br>6.82<br>14.17 | .00<br>.00<br>.17<br>.46<br>.81<br>1.46<br>2.03<br>3.37<br>6.66<br>11.56<br>24.01 | 100.00<br>100.00<br>99.83<br>99.54<br>99.19<br>98.54<br>97.97<br>96.63<br>93.34<br>88.44<br>75.99 |
| 80<br>120<br>170<br>200<br>230<br>PAN                     | 2.5<br>3.0<br>3.5<br>3.75<br>4.0                                         | .180<br>.125<br>.090<br>.075<br>.063                                                 | 27.09<br>45.59<br>52.09<br>53.30<br>56.22<br>58.93                              | 45.91<br>77.26<br>88.27<br>90.32<br>95.28<br>99.86                                | 54.09<br>22.74<br>11.73<br>9.68<br>4.72<br>.14                                                    |
| PHI(5):<br>PHI(50)<br>PHI(95)                             | : 2.57                                                                   |                                                                                      | (16): 1.68<br>(75): 2.96                                                        |                                                                                   | 5): 2.02<br>:): 3.31                                                                              |
| SIEVE I                                                   |                                                                          | : .08<br>244                                                                         |                                                                                 | SILT/CLAY:<br>KURTOSIS:                                                           |                                                                                                   |
| GRAPHIC<br>MEAN (F<br>MEAN (M<br>NOTE: M                  | HI): 2                                                                   | .46<br>.18                                                                           |                                                                                 | SORTING:<br>MEDIAN (mm):<br>POINT METHO                                           | .17                                                                                               |
| MOMENT<br>MEAN (F<br>MEAN (T                              | PHI): 2                                                                  | .38                                                                                  |                                                                                 | SORTING:                                                                          | .90                                                                                               |
| D 3 (D 3 D 7                                              | T TO \$77.36                                                             | TA TTOOCCO.                                                                          | מגוח ו                                                                          |                                                                                   |                                                                                                   |

DATA FILE NAME: VC9668-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-68-2

SAMPLE ELEV. (FT. NGVD): -77.5 SAMPLE DEPTH (FT.): -5.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

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DRY SAMPLE WEIGHT (GRAMS): 53.30

SAMPLE WEIGHT AFTER WASH (GRAMS): 50.30

| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                  | RETAINED (%)                                                         | PASSED (%)                                                                      |
|-----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>.13<br>.39<br>1.18<br>2.50<br>4.25<br>7.52<br>12.66    | .00<br>.00<br>.24<br>.73<br>2.21<br>4.69<br>7.97<br>14.11<br>23.75   | 100.00<br>100.00<br>99.76<br>99.27<br>97.79<br>95.31<br>92.03<br>85.89<br>76.25 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0             | .355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063                 | 17.49<br>24.91<br>34.21<br>46.18<br>49.50<br>50.09<br>51.73<br>53.26 | 32.81<br>46.74<br>64.18<br>86.64<br>92.87<br>93.98<br>97.05<br>99.92 | 67.19<br>53.26<br>35.82<br>13.36<br>7.13<br>6.02<br>2.95                        |
| PHI(5):<br>PHI(50)<br>PHI(95)                       | : 2.09                                                     |                                                                      | (16): .60<br>(75): 2.74                                              | •                                                                    | 1.07<br>2.94                                                                    |
| SIEVE L                                             |                                                            | .04<br>344                                                           |                                                                      | SILT/CLAY:<br>KURTOSIS:                                              |                                                                                 |
|                                                     | HI): 1 m):                                                 | .80<br>.29                                                           | I<br>ED USING 5                                                      | SORTING:<br>MEDIAN (mm):<br>POINT METHC                              | .23                                                                             |
| •                                                   | METHOD<br>HI): 1<br>m):                                    |                                                                      |                                                                      | SORTING:                                                             | 1.19                                                                            |

DATA FILE NAME: VC9668-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-68-3

SAMPLE ELEV. (FT. NGVD): -79.0

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

|                                                                                                          |                                                                                               | GHT (GRAMS<br>AFTER WASH                                                                                                             |                                                                                                                                                |                                         |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE                                                                                                    | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                            | RETAINED<br>(%)                         | PASSED<br>(%)                                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>2.13<br>4.58<br>7.69<br>11.79<br>16.60<br>22.96<br>30.35<br>35.82<br>43.75<br>52.99<br>65.01<br>68.69<br>69.28<br>71.18<br>73.00 | 94.84                                   | 100.00<br>100.00<br>97.08<br>93.73<br>89.47<br>83.86<br>77.28<br>68.57<br>58.45<br>50.97<br>40.11<br>27.46<br>11.01<br>5.97<br>5.16<br>2.56 |
| PHI (50                                                                                                  | : -1.69<br>): 1.54<br>): 3.77                                                                 | PHI(                                                                                                                                 | 16):51<br>75): 2.57                                                                                                                            |                                         | 5): .13<br>:): 2.85                                                                                                                         |
| SIEVE :                                                                                                  | LOSS(g)<br>SS:                                                                                | : .05<br>301                                                                                                                         |                                                                                                                                                | SILT/CLAY:<br>KURTOSIS:                 |                                                                                                                                             |
| MEAN (                                                                                                   | C METHO<br>PHI): 1<br>mm):<br>MEAN WA                                                         | .19<br>.44                                                                                                                           |                                                                                                                                                | SORTING:<br>MEDIAN (mm):<br>POINT METHO | .34                                                                                                                                         |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm):                                                                     |                                                                                                                                      | m n B                                                                                                                                          | SORTING:                                | 1.57                                                                                                                                        |

DATA FILE NAME: VC9668-3.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-69-1

SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -1.0 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

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DRY SAMPLE WEIGHT (GRAMS): 49.39

SAMPLE WEIGHT AFTER WASH (GRAMS): 47.33

| SIEVE<br>SIZE                                                                                     | PHI<br>SIZE                                                                             | MESH SIZE (mm)                                                                                                               | RETAINED<br>(GRAMS)                                                                                                     | RETAINED<br>(%)                         | PASSED<br>(%)                                                                                                                               |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.75<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075 | .00<br>.09<br>.30<br>.51<br>1.12<br>2.14<br>4.28<br>8.07<br>12.19<br>19.94<br>31.88<br>44.45<br>46.86<br>47.16<br>48.28 | 95.48                                   | 100.00<br>100.00<br>99.82<br>99.39<br>98.97<br>97.73<br>95.67<br>91.33<br>83.66<br>75.32<br>59.63<br>35.45<br>10.00<br>5.12<br>4.52<br>2.25 |
| PAN                                                                                               | 7.0                                                                                     |                                                                                                                              | 49.33                                                                                                                   | 99.88                                   | .12                                                                                                                                         |
| PHI(5);<br>PHI(50)<br>PHI(95)                                                                     |                                                                                         | PHI                                                                                                                          | (16): .98<br>(75): 2.71                                                                                                 | •                                       | 5): 1.51<br>1): 2.88                                                                                                                        |
| SIEVE I                                                                                           | LOSS(g)                                                                                 | : .06<br>405                                                                                                                 |                                                                                                                         | SILT/CLAY:<br>KURTOSIS                  |                                                                                                                                             |
| MEAN (I                                                                                           | C METHOPHI): 1 nm): MEAN WA                                                             | .94<br>.26                                                                                                                   |                                                                                                                         | SORTING:<br>MEDIAN (mm):<br>POINT METHO | .22                                                                                                                                         |
| MEAN ()                                                                                           | METHOD<br>PHI): 1<br>mm) :                                                              | .97                                                                                                                          |                                                                                                                         | SORTING                                 | : 1.00                                                                                                                                      |

DATA FILE NAME: VC9669-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

SAMPLE NO.: VC96-69-2 SAMPLE ELEV. (FT. NGVD): -77.0

SAMPLE DEPTH (FT.): -5.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

| DRY SAMPLE WEIGH                                                                                                                                                | EIGHT (GRAMS<br>I AFTER WASH                                                                                                                                                                                                                                                   | ): 56.54<br>(GRAMS):                                                                                                                            | 52.70                                 |                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE PHI<br>SIZE SIZE                                                                                                                                          | MESH SIZE (mm)                                                                                                                                                                                                                                                                 | RETAINED<br>(GRAMS)                                                                                                                             | RETAINED<br>(%)                       | PASSED<br>(%)                                                                                                                               |
| 5/8 -4.<br>5/16 -3.<br>5 -2.<br>7 -1.<br>10 -1.<br>14 -0.<br>18 0.<br>25 0.<br>35 1.<br>45 1.<br>60 2.<br>80 2.<br>120 3.<br>170 3.<br>200 3.7<br>230 4.<br>PAN | 0       8.000         0       4.000         5       2.800         0       2.000         5       1.400         0       1.000         5       .710         0       .500         5       .250         5       .180         0       .125         5       .090         5       .075 | .00<br>.00<br>4.58<br>8.12<br>11.96<br>16.76<br>22.14<br>28.34<br>33.00<br>35.37<br>38.72<br>43.24<br>49.84<br>52.13<br>52.60<br>54.58<br>56.51 | 96.53                                 | 100.00<br>100.00<br>91.90<br>85.64<br>78.85<br>70.36<br>60.84<br>49.88<br>41.63<br>37.44<br>31.52<br>23.52<br>11.85<br>7.80<br>6.97<br>3.47 |
| PHI(5): -2.3<br>PHI(50): .4<br>PHI(95): 3.8                                                                                                                     | 9 PHI                                                                                                                                                                                                                                                                          | (16):-1.38<br>(75): 2.41                                                                                                                        | PHI(25                                |                                                                                                                                             |
| SIEVE LOSS(g<br>SKEWNESS:                                                                                                                                       | ): .03<br>.124                                                                                                                                                                                                                                                                 |                                                                                                                                                 | SILT/CLAY<br>KURTOSIS                 |                                                                                                                                             |
| GRAPHIC METH<br>MEAN (PHI):<br>MEAN (mm):<br>NOTE: MEAN W                                                                                                       | .69<br>.62                                                                                                                                                                                                                                                                     |                                                                                                                                                 | SORTING<br>MEDIAN (mm)<br>POINT METHO | .71                                                                                                                                         |
| MOMENT METHO MEAN (PHI): MEAN (mm):                                                                                                                             | .58                                                                                                                                                                                                                                                                            |                                                                                                                                                 | SORTING                               | : 1.82                                                                                                                                      |

DATA FILE NAME: VC9669-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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SAMPLE NO.: VC96-72-1

SAMPLE ELEV. (FT. NGVD): -69.2

SAMPLE DEPTH (FT.): -0.7 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 56.61

SAMPLE WEIGHT AFTER WASH (GRAMS): 54.88

| J.1111 111                                                |                                                                   |                                                                              | ( ( ) ( ) ( )                                                        | 01100                                                                  |                                                                                 |
|-----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                             | PHI<br>SIZE                                                       | MESH SIZE (mm)                                                               | RETAINED<br>(GRAMS)                                                  | RETAINED<br>(%)                                                        | PASSED<br>(%)                                                                   |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500 | .00<br>.00<br>.65<br>1.09<br>2.58<br>6.51<br>13.57<br>26.70<br>39.69 | .00<br>.00<br>1.15<br>1.93<br>4.56<br>11.50<br>23.97<br>47.16<br>70.11 | 100.00<br>100.00<br>98.85<br>98.07<br>95.44<br>88.50<br>76.03<br>52.84<br>29.89 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN         | 2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0                           | .355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063                         | 44.23<br>47.35<br>50.35<br>53.72<br>54.64<br>54.76<br>55.64<br>56.53 | 96.73<br>98.30                                                         | 21.87<br>16.36<br>11.06<br>5.11<br>3.48<br>3.27<br>1.70                         |
| PHI (50)                                                  | 97<br>): .56<br>): 3.03                                           | PHI (<br>PHI (                                                               | 16):32<br>75): 1.30                                                  |                                                                        | 5): .02<br>4): 2.03                                                             |
| SIEVE I                                                   | Loss(g)<br>ss:                                                    | .08<br>.400                                                                  |                                                                      | SILT/CLAY<br>KURTOSIS                                                  |                                                                                 |
| MEAN (I                                                   | C METHOPHI): mm): MEAN WAS                                        | .87<br>.55                                                                   |                                                                      | SORTING<br>MEDIAN (mm)<br>POINT METH                                   | : .68                                                                           |
| MEAN (                                                    | METHOD PHI):                                                      |                                                                              |                                                                      | SORTING                                                                | : 1.16                                                                          |

DATA FILE NAME: VC9672-1.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

**SAMPLE NO.:** VC96-72-2

SAMPLE ELEV. (FT. NGVD): -73.0

SAMPLE DEPTH (FT.): -4.5 SAMPLE TYPE: CORE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP-SM

\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 41.48

SAMPLE WEIGHT AFTER WASH (GRAMS): 38.77

| SWILTE                                              | WEIGHT                                                     | ATTEK WADII                                                          | (GIGHID).                                                            | 30.77                                                                |                                                                                 |
|-----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                  | RETAINED (%)                                                         | PASSED<br>(%)                                                                   |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>1.14<br>1.94<br>2.98<br>4.91<br>7.66<br>12.28<br>16.89 | .00<br>.00<br>2.75<br>4.68<br>7.18<br>11.84<br>18.47<br>29.60        | 100.00<br>100.00<br>97.25<br>95.32<br>92.82<br>88.16<br>81.53<br>70.40<br>59.28 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0             | .355<br>.250<br>.180<br>.125<br>.090                                 | 19.24<br>22.59<br>27.92<br>35.60<br>38.08<br>38.55<br>40.01<br>41.40 | 46.38<br>54.46<br>67.31<br>85.82<br>91.80<br>92.94<br>96.47<br>99.81 | 53.62<br>45.54<br>32.69<br>14.18<br>8.20<br>7.06<br>3.53                        |
| PHI (50                                             | : -1.44<br>): 1.72<br>): 3.90                              | •                                                                    | 16):19<br>75): 2.71                                                  | •                                                                    | 5): .29<br>4): 2.95                                                             |
| SIEVE :                                             |                                                            | : .08<br>315                                                         |                                                                      | SILT/CLAY<br>KURTOSIS                                                |                                                                                 |
| MEAN (                                              | C METHO PHI): 1 mm): MEAN WA                               | .39                                                                  |                                                                      | SORTING<br>MEDIAN (mm)<br>POINT METH                                 | : .30                                                                           |
| MEAN (                                              | METHOD<br>PHI): 1<br>mm) :                                 | .36                                                                  |                                                                      | SORTING                                                              | : 1.54                                                                          |

DATA FILE NAME: VC9672-2.TAB

BROWARD COUNTY VIBRACORES 10/96

TESTED BY: SK ON: 11/96

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**SAMPLE NO.: VC96-72-3** 

SAMPLE ELEV. (FT. NGVD): -75.5

SAMPLE DEPTH (FT.): -7.0 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 65.88

SAMPLE WEIGHT AFTER WASH (GRAMS): 57.88

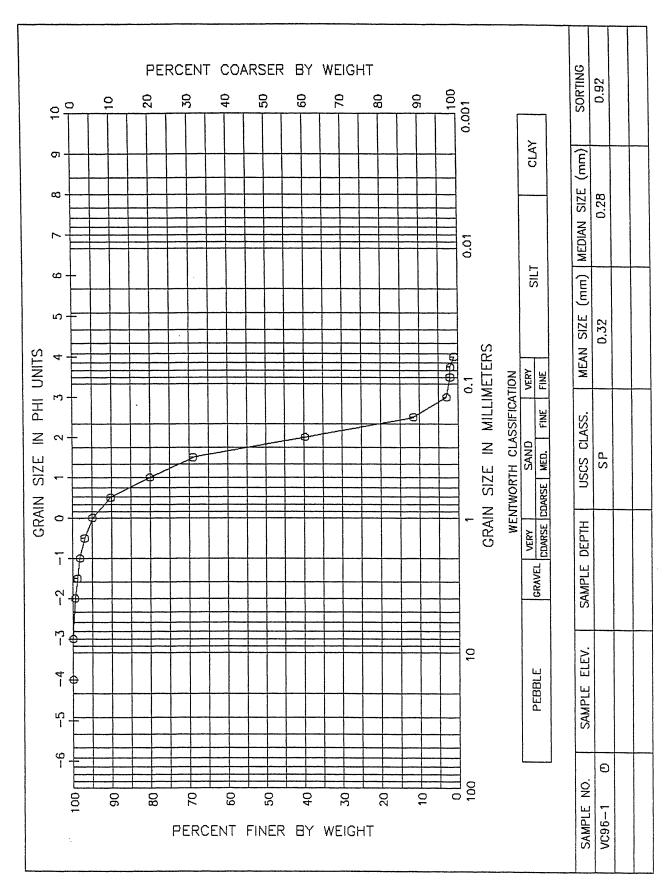
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                    | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                            | RETAINED (%)                                                                                                                                    | PASSED<br>(%)                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0 -3.0 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 2.5 3.0 3.5 3.75 4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>3.39<br>5.45<br>8.00<br>11.82<br>15.79<br>21.33<br>28.78<br>34.49<br>43.49<br>49.25<br>53.61<br>56.35<br>57.43<br>61.72<br>65.84 | .00<br>.00<br>5.15<br>8.27<br>12.14<br>17.94<br>23.97<br>32.38<br>43.69<br>52.35<br>66.01<br>74.76<br>81.38<br>85.53<br>87.17<br>93.69<br>99.94 | 100.00<br>100.00<br>94.85<br>91.73<br>87.86<br>82.06<br>76.03<br>67.62<br>56.31<br>47.65<br>33.99<br>25.24<br>18.62<br>14.47<br>12.83<br>6.31 |
| PHI(5):<br>PHI(50)<br>PHI(95)                                                                            | : 1.36                                                         |                                                                                                                                      | 16):67<br>75): 2.52                                                                                                                            | •                                                                                                                                               | 5): .06<br>4): 3.32                                                                                                                           |
| SIEVE LO                                                                                                 |                                                                | .04<br>177                                                                                                                           |                                                                                                                                                | SILT/CLAY:<br>KURTOSIS                                                                                                                          |                                                                                                                                               |
| GRAPHIC<br>MEAN (PI<br>MEAN (mI<br>NOTE: MI                                                              | HI): 1.                                                        | .21                                                                                                                                  |                                                                                                                                                | SORTING:<br>EDIAN (mm):<br>POINT METHO                                                                                                          | .39                                                                                                                                           |
|                                                                                                          | METHOD<br>HI): 1                                               |                                                                                                                                      |                                                                                                                                                | SORTING                                                                                                                                         | 1.69                                                                                                                                          |

DATA FILE NAME: VC9672-3.TAB

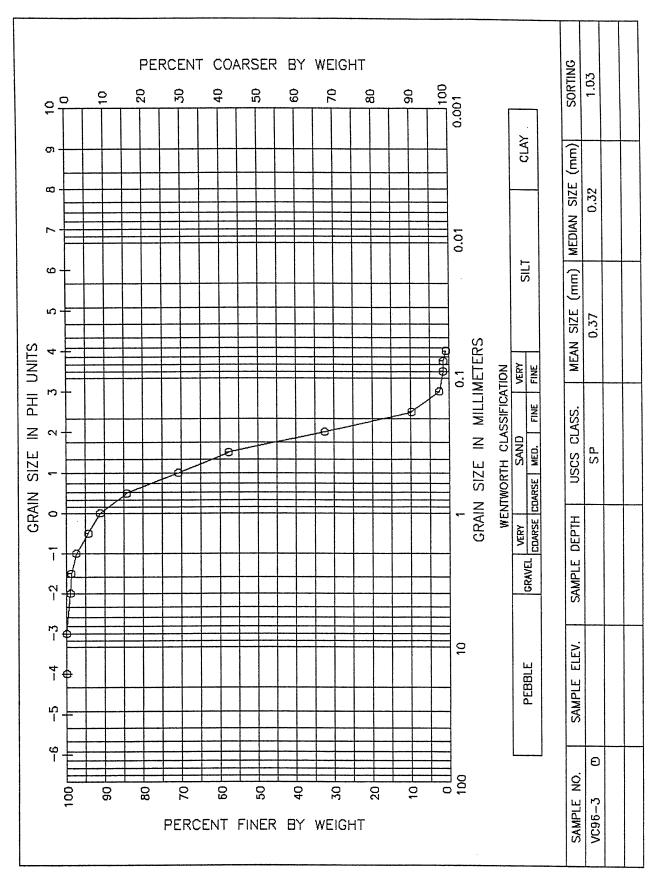
## SUB-APPENDIX E-4 GRAIN SIZE DISTRIBUTION CURVES



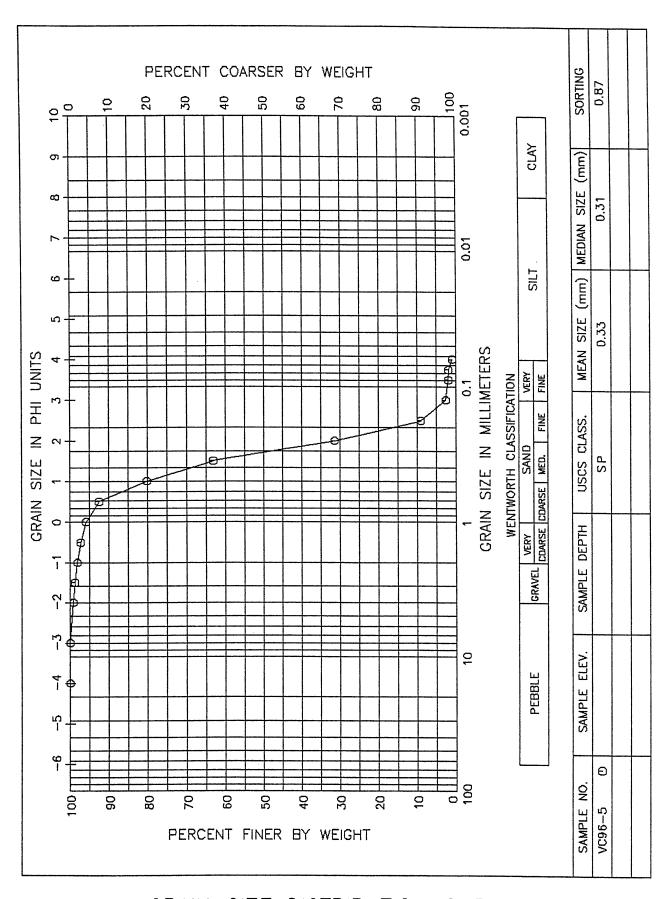
## EACH CORE DISTRIBUTION CURVES



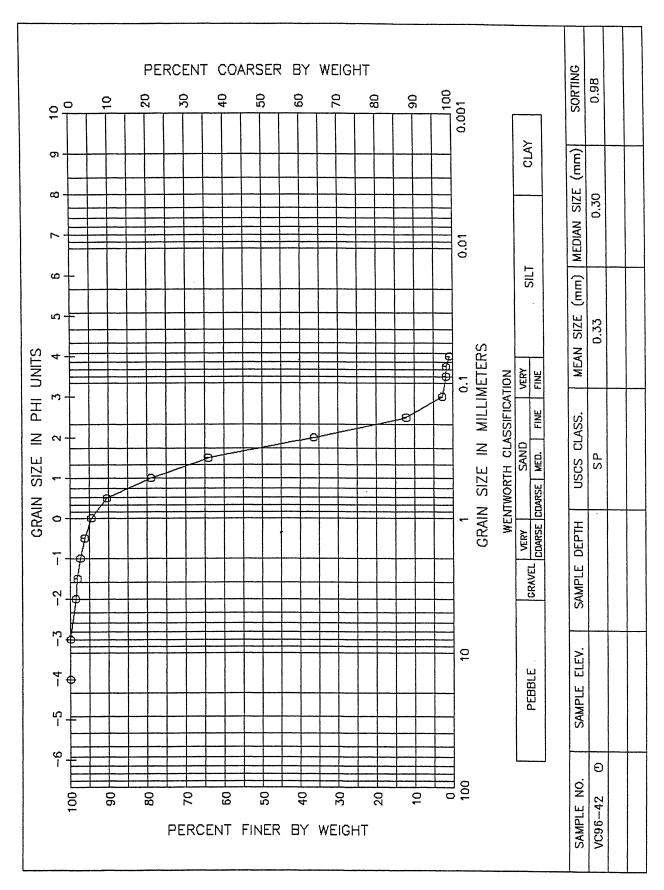
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



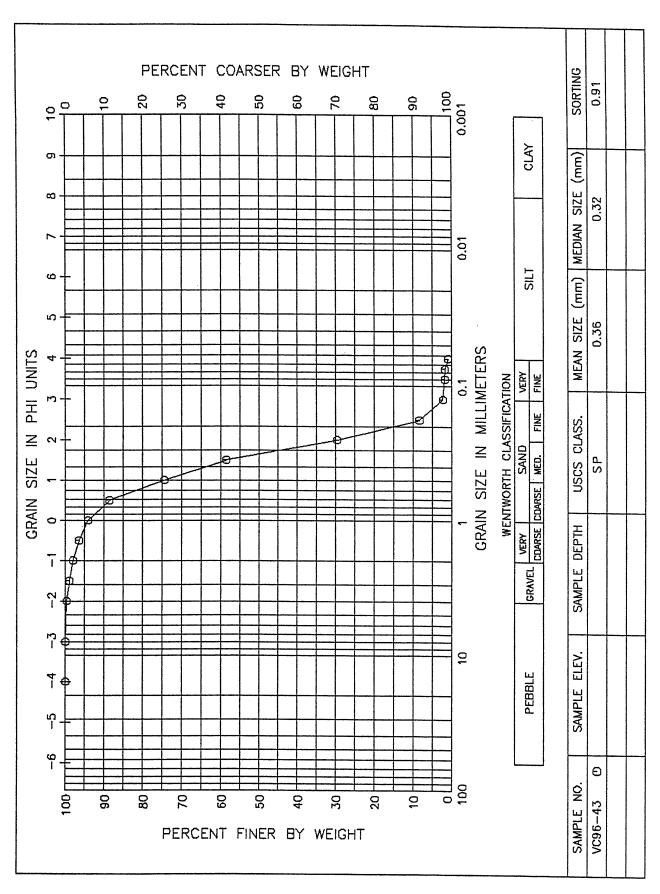
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



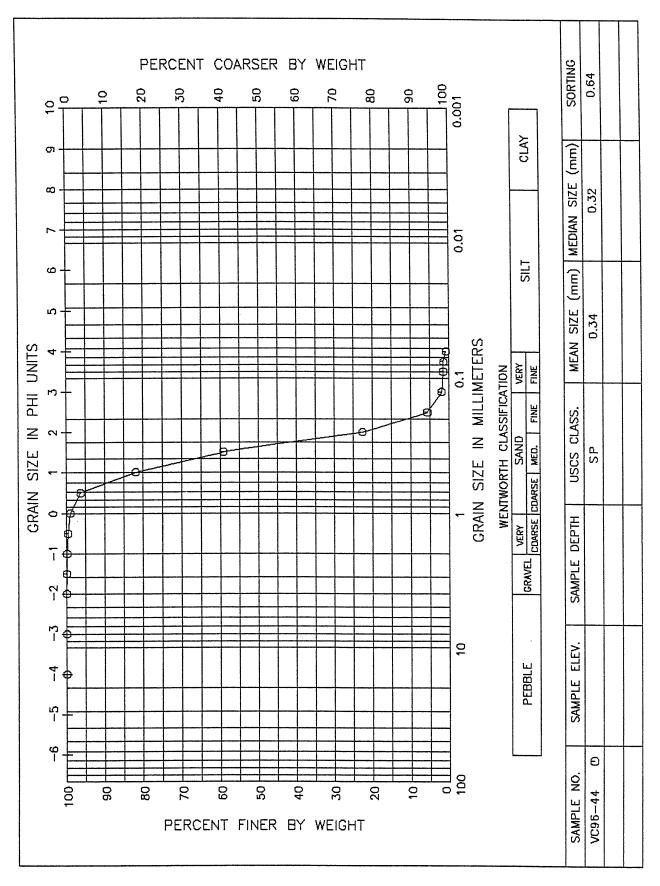
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



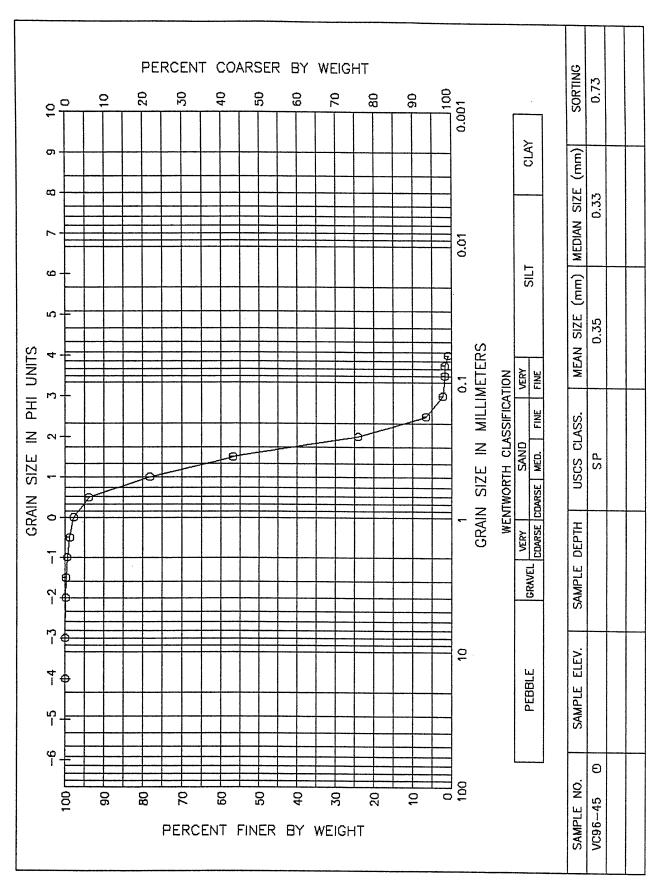
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



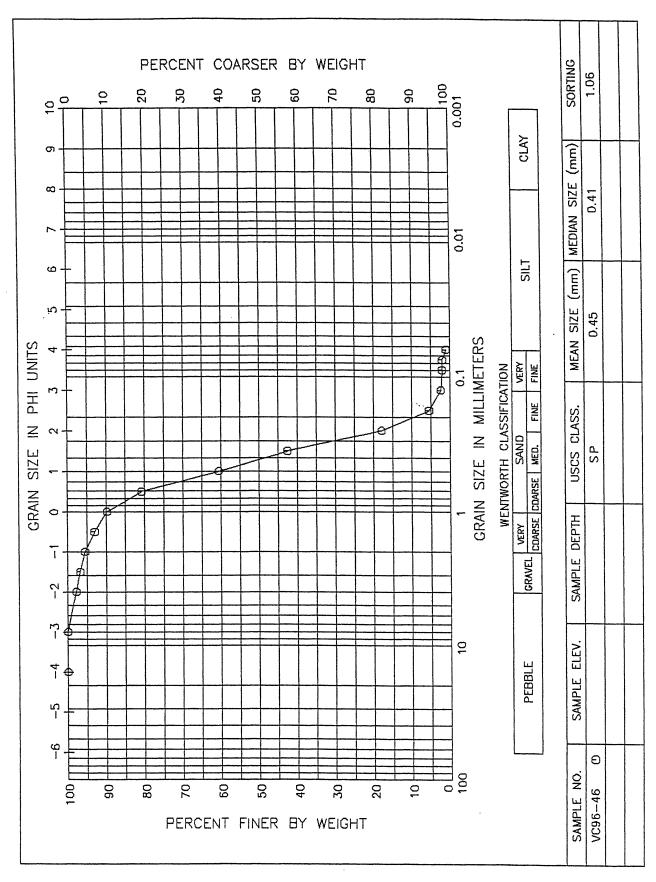
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



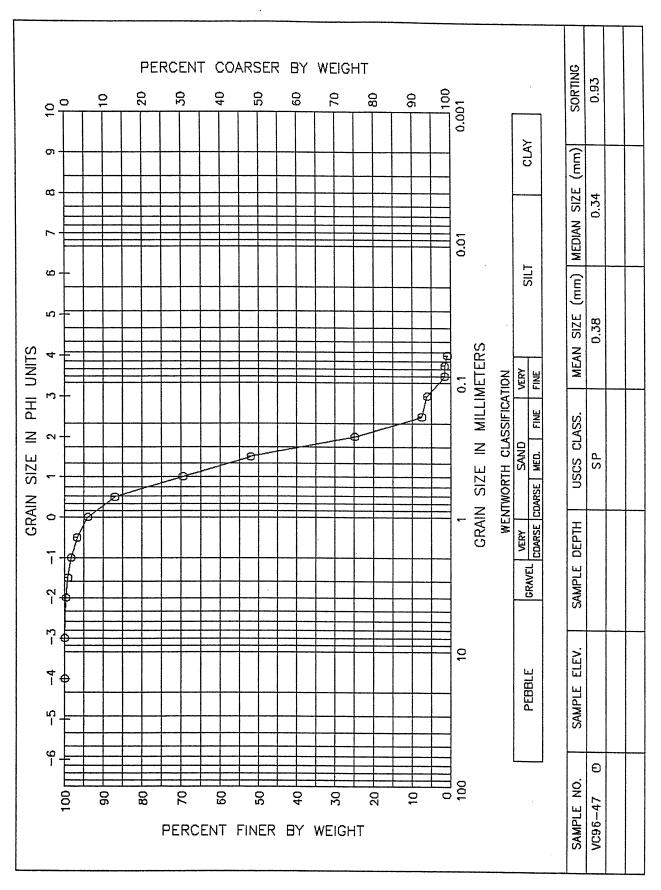
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96

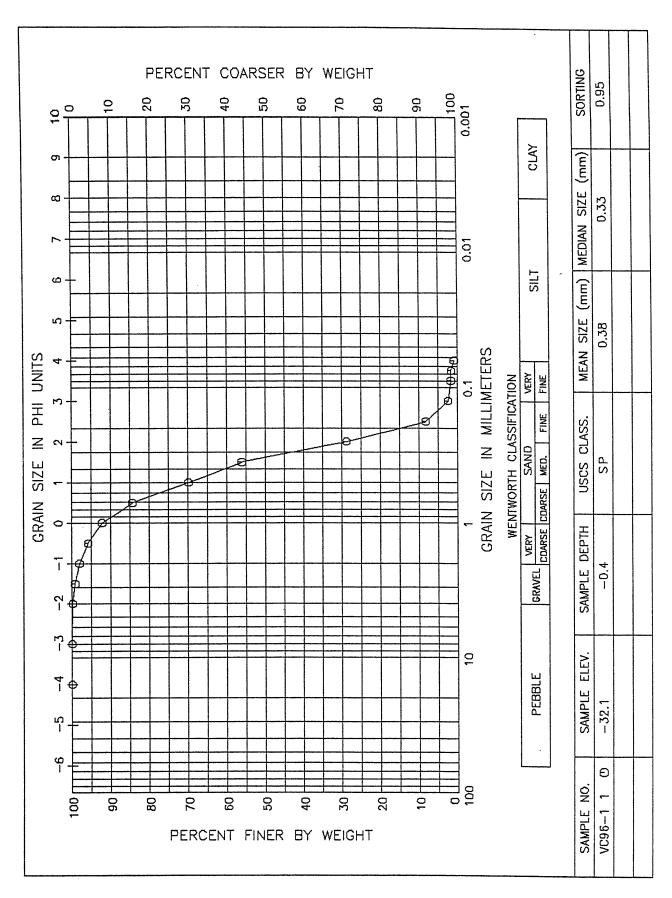


GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96

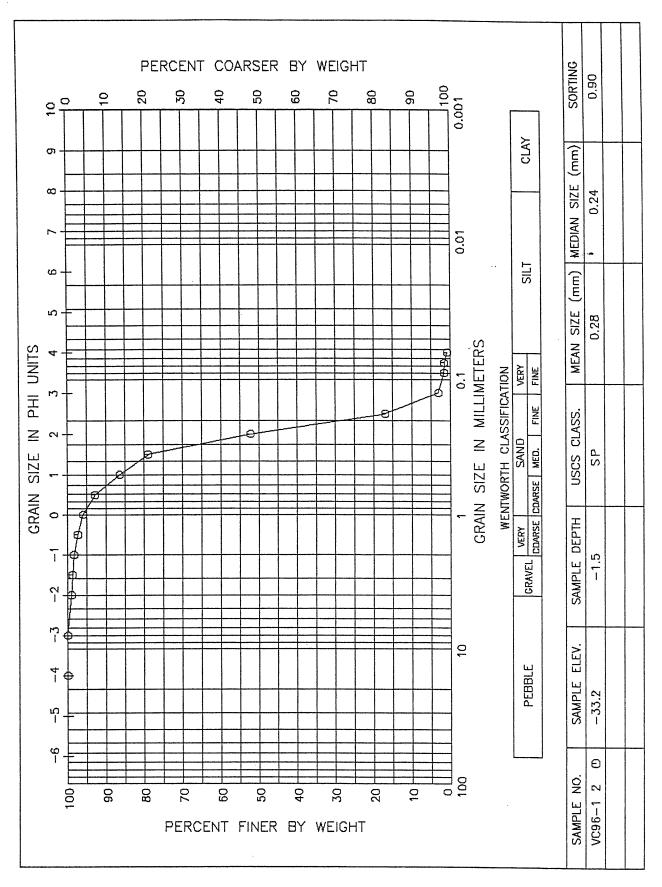


GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96

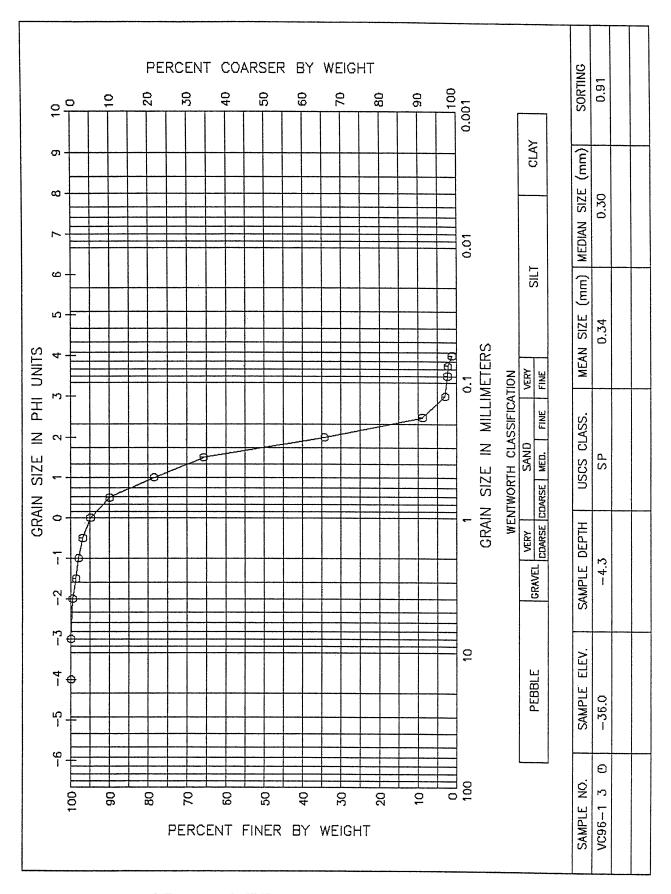
## INDIVIDUAL SAMPLE DISTRIBUTION CURVES



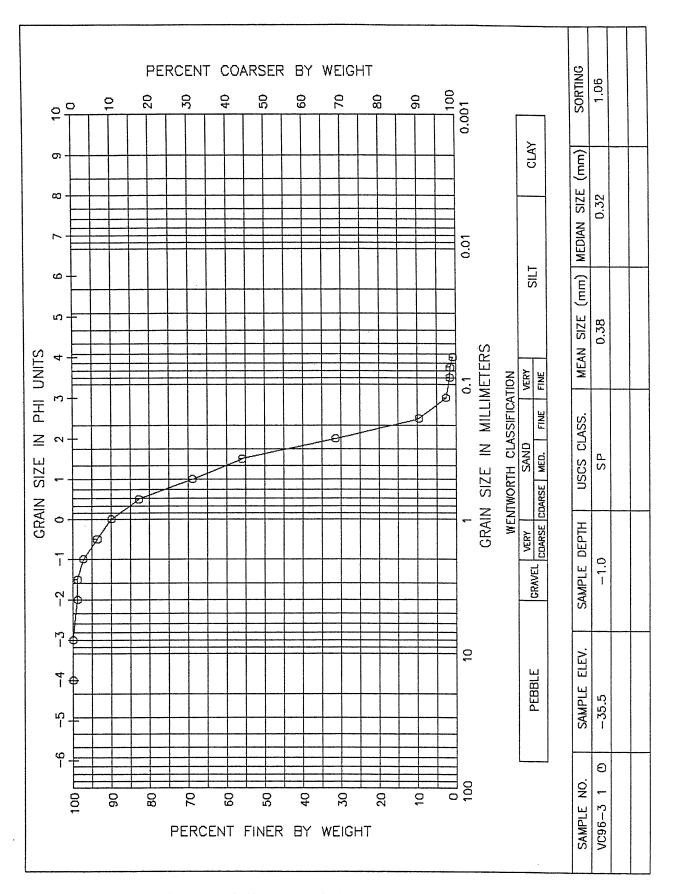
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



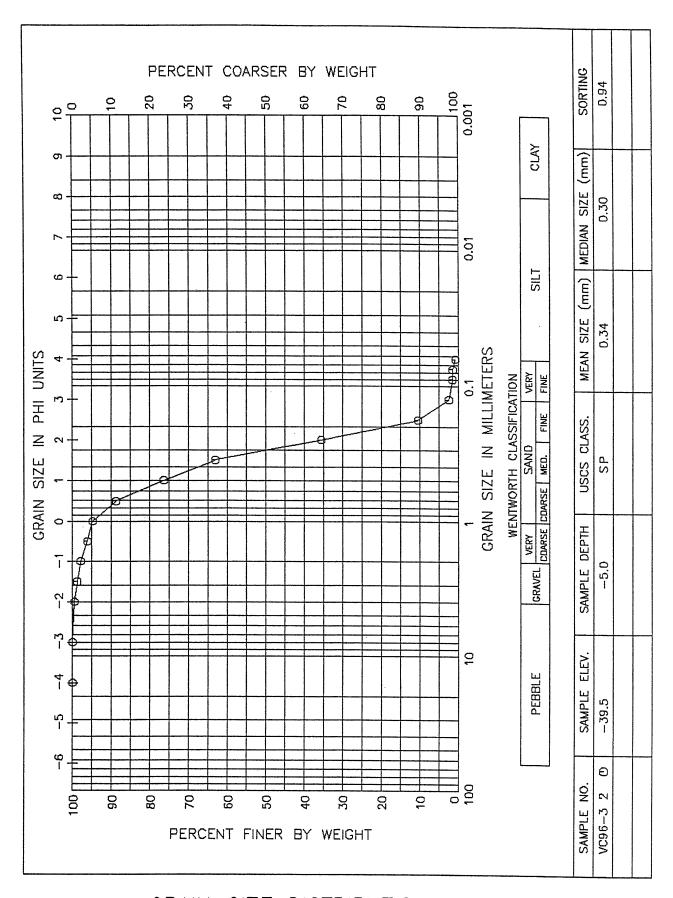
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA | 9/96



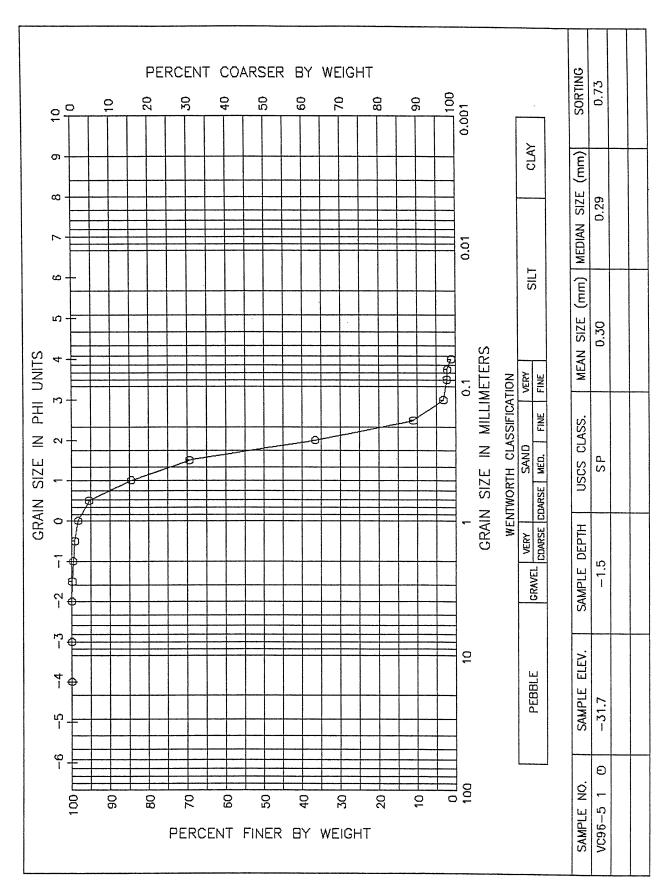
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



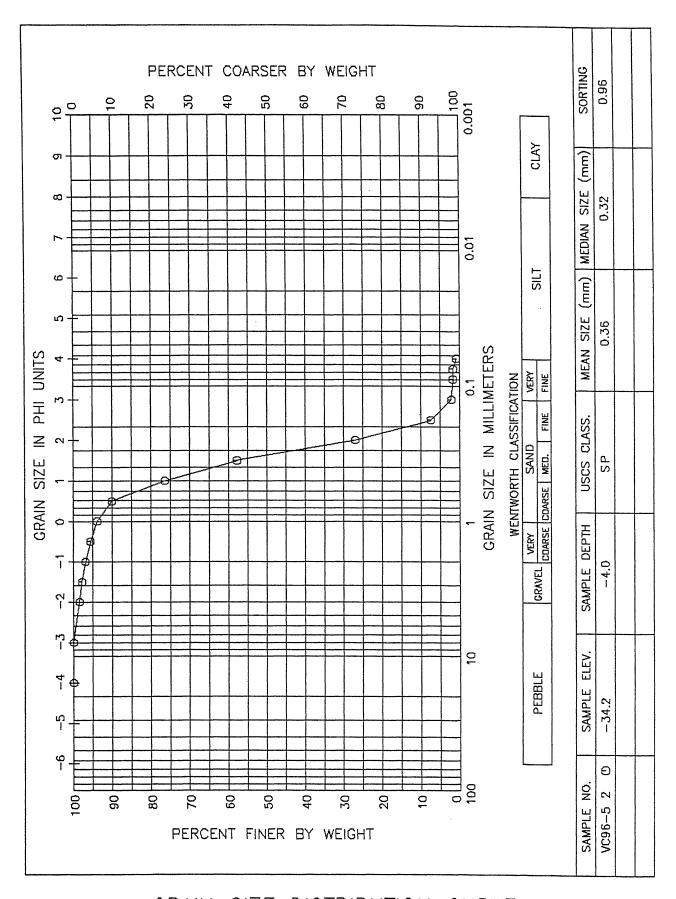
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



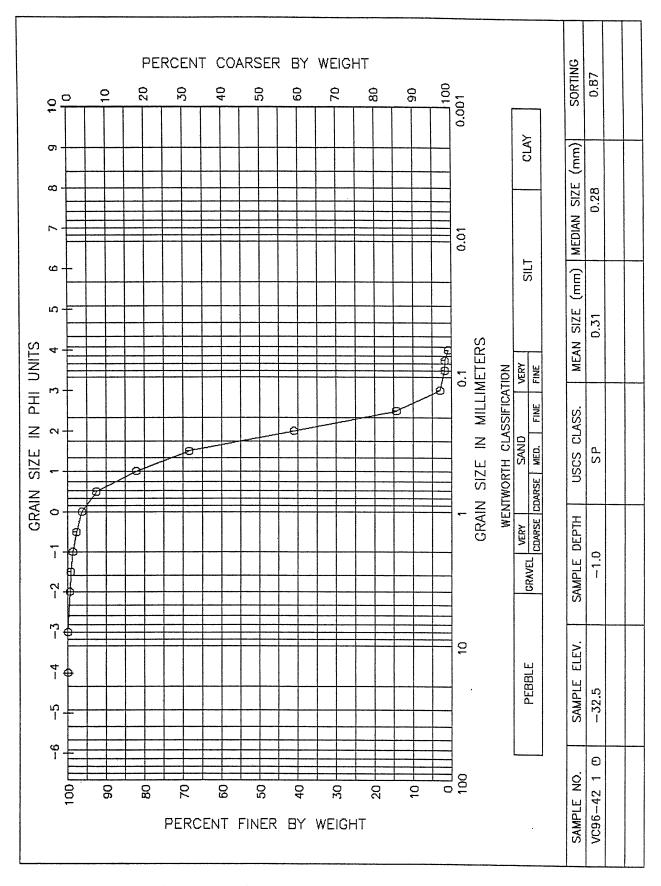
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



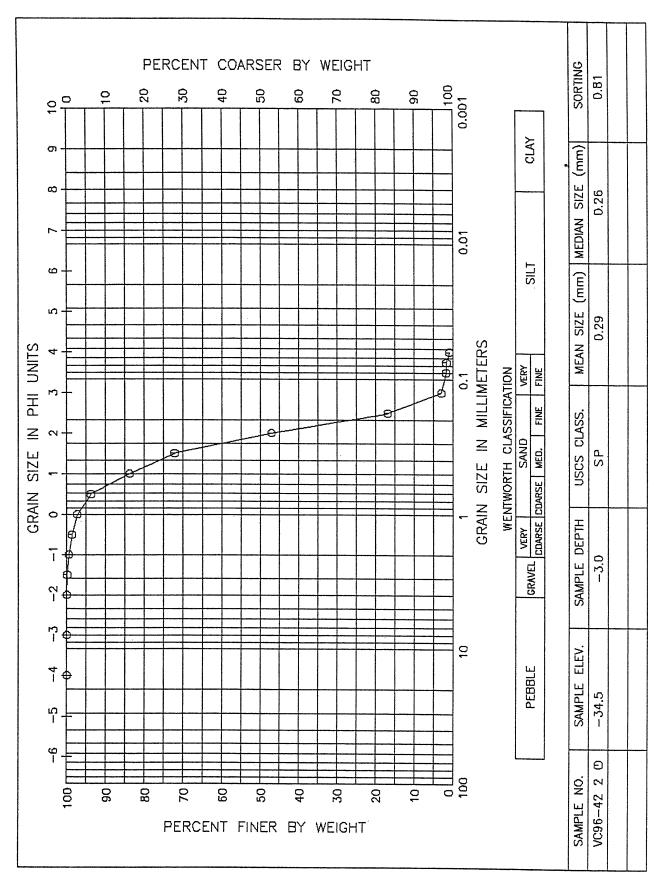
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



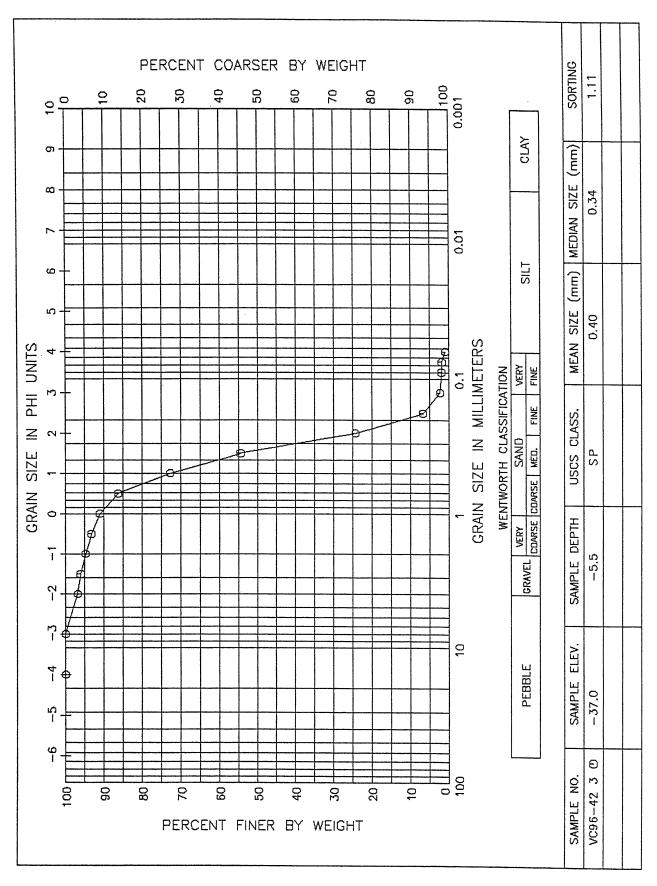
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 9/96



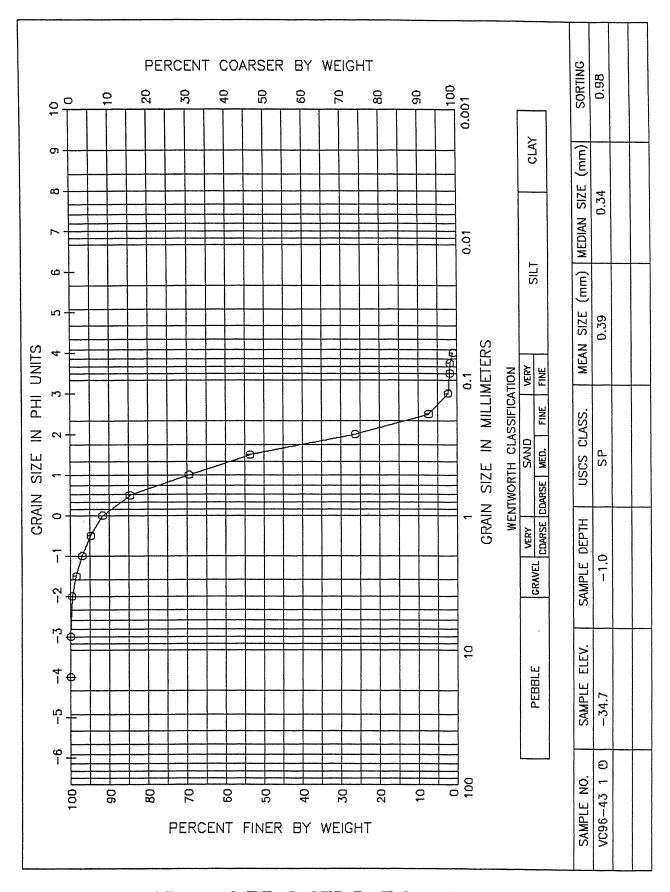
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



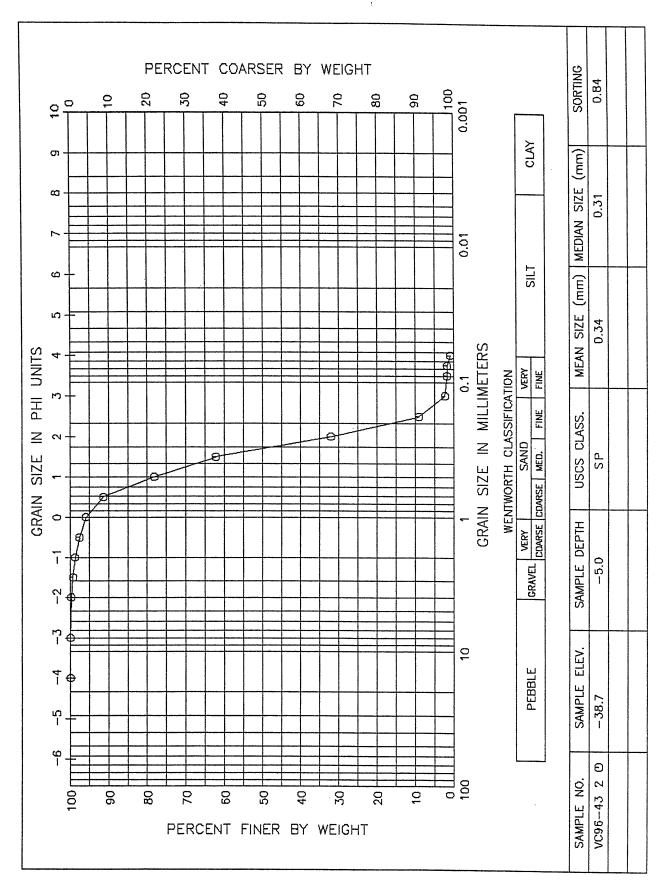
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



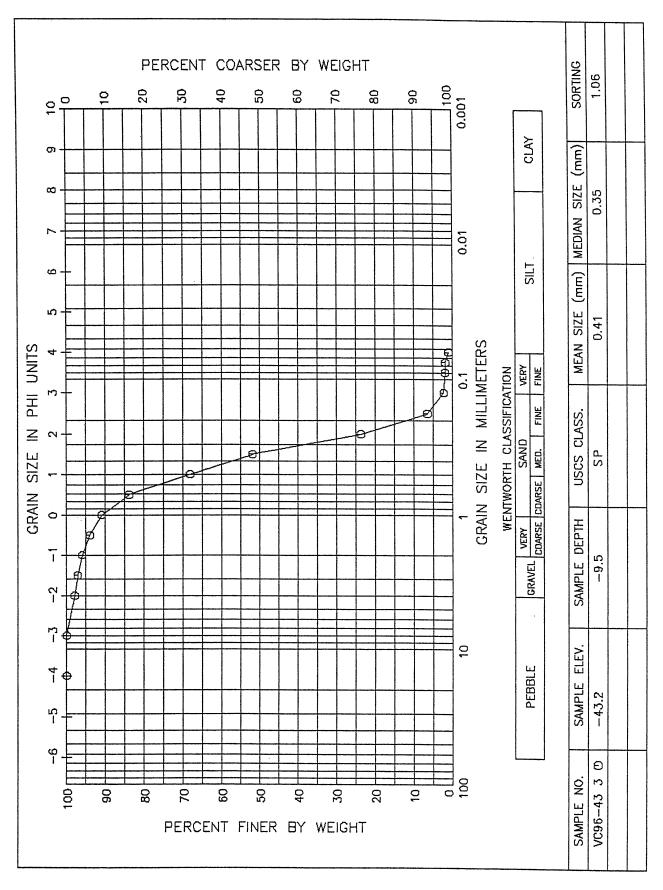
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



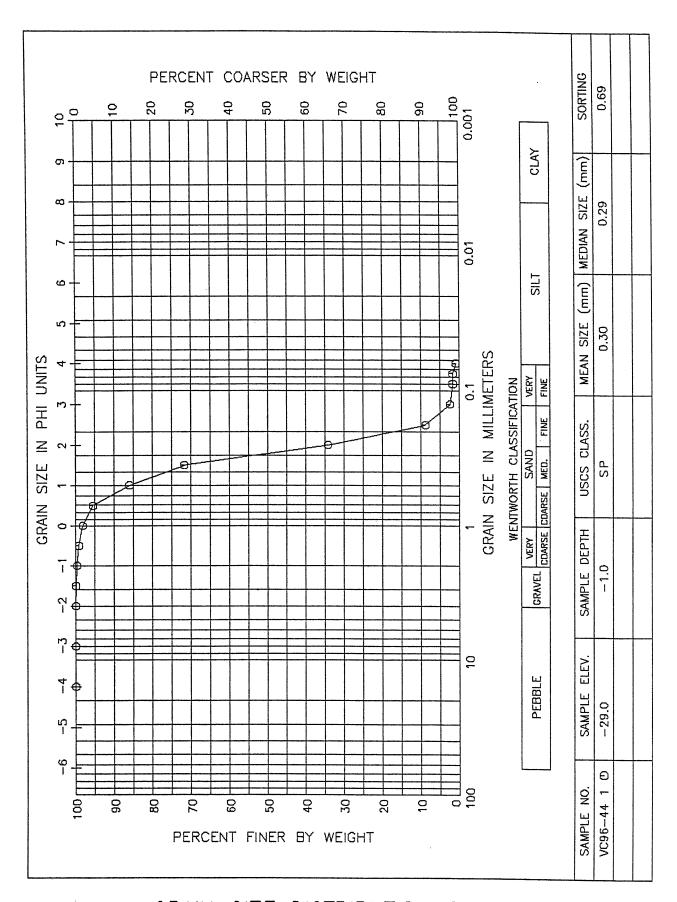
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



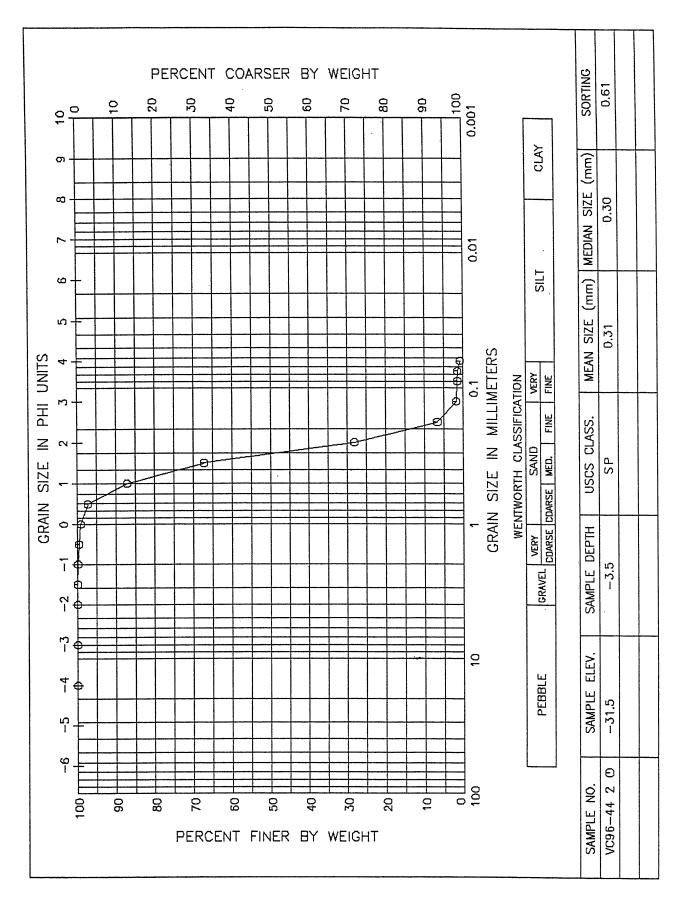
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



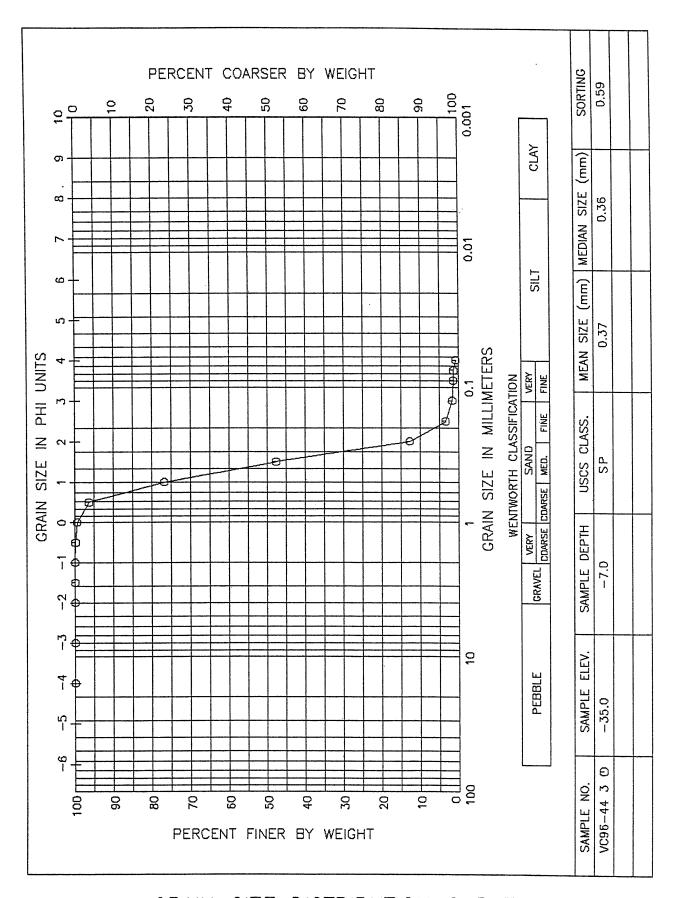
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



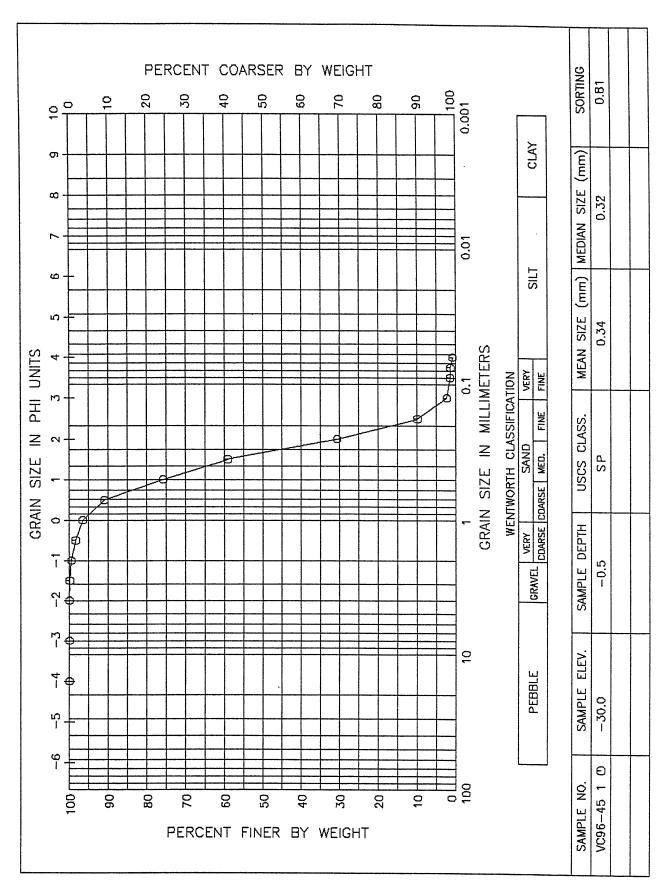
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



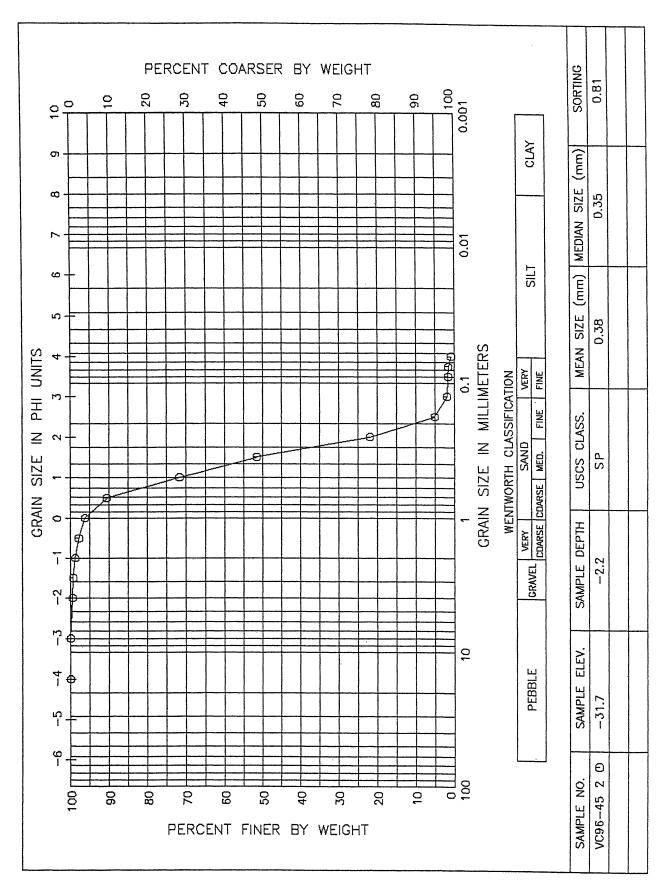
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



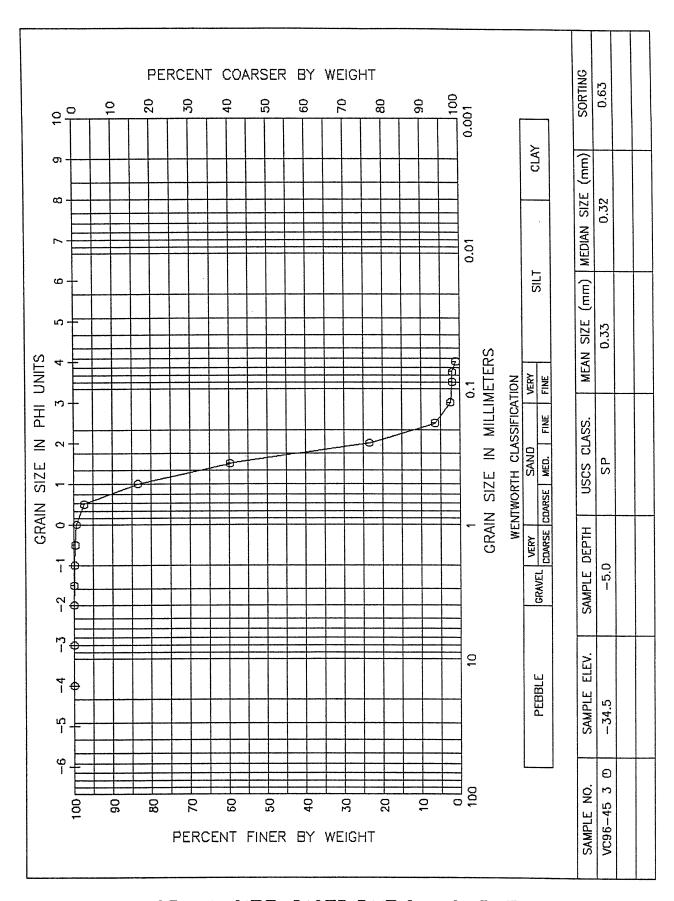
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



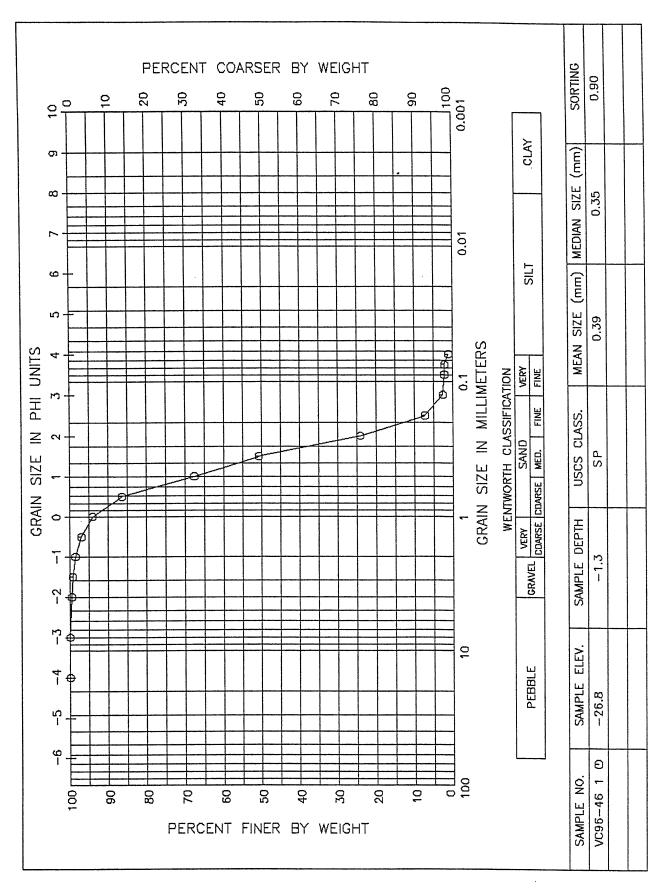
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



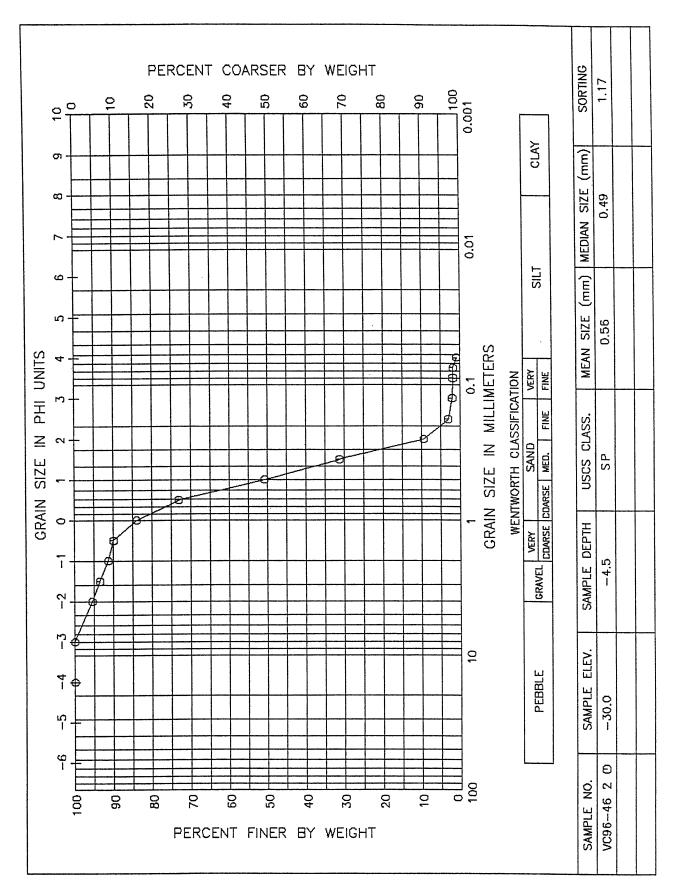
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



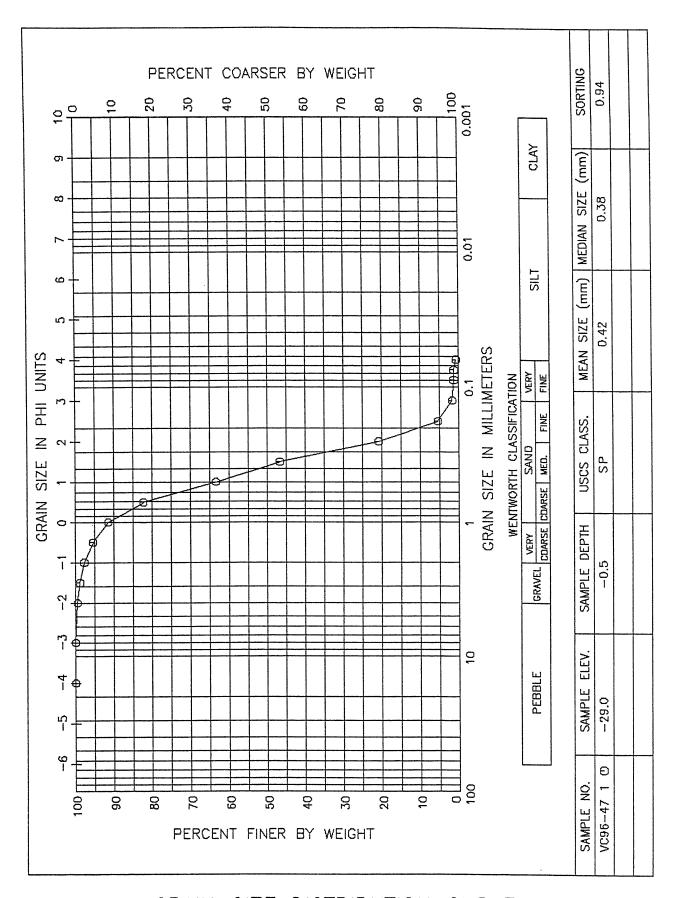
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



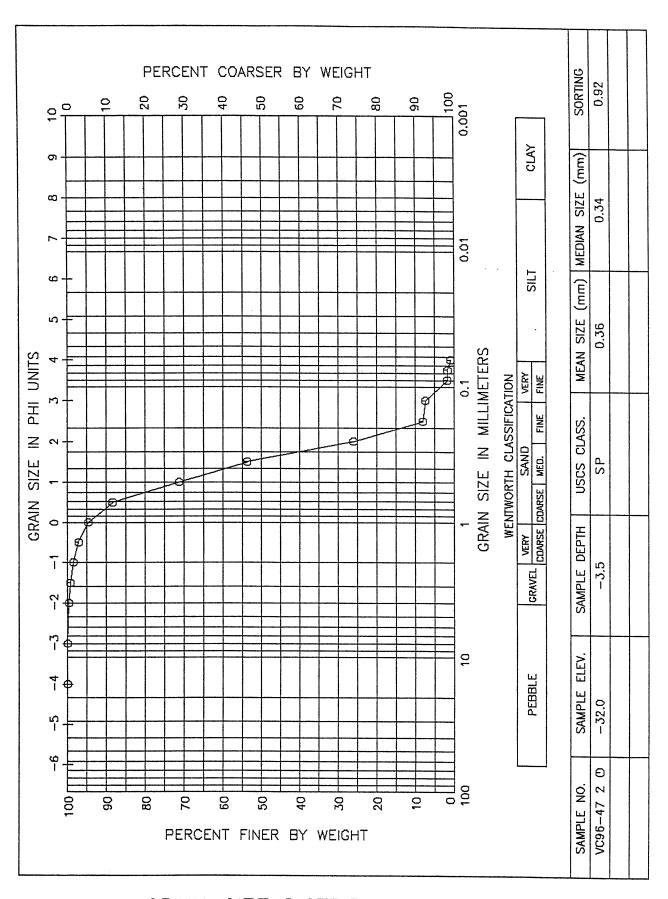
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



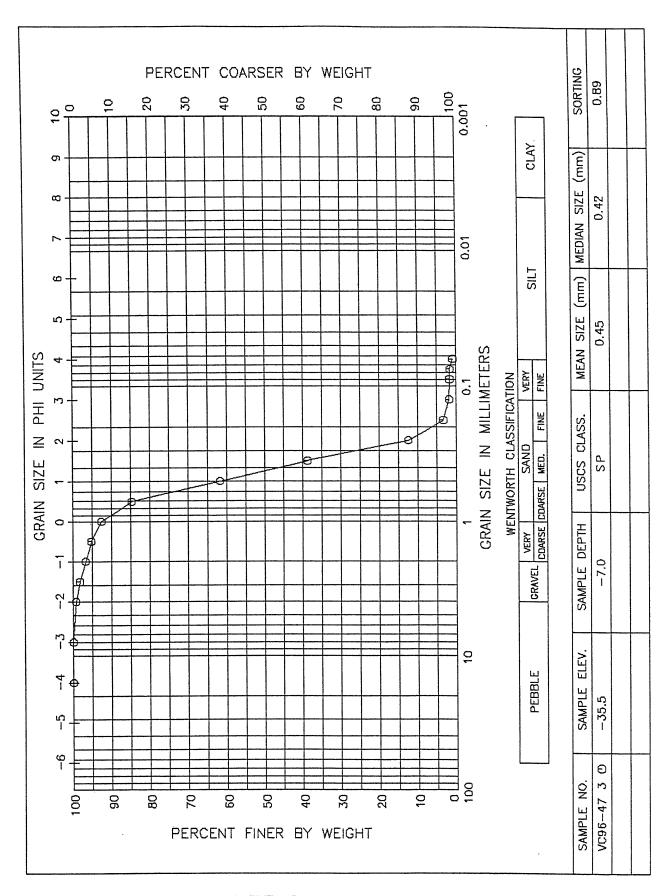
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



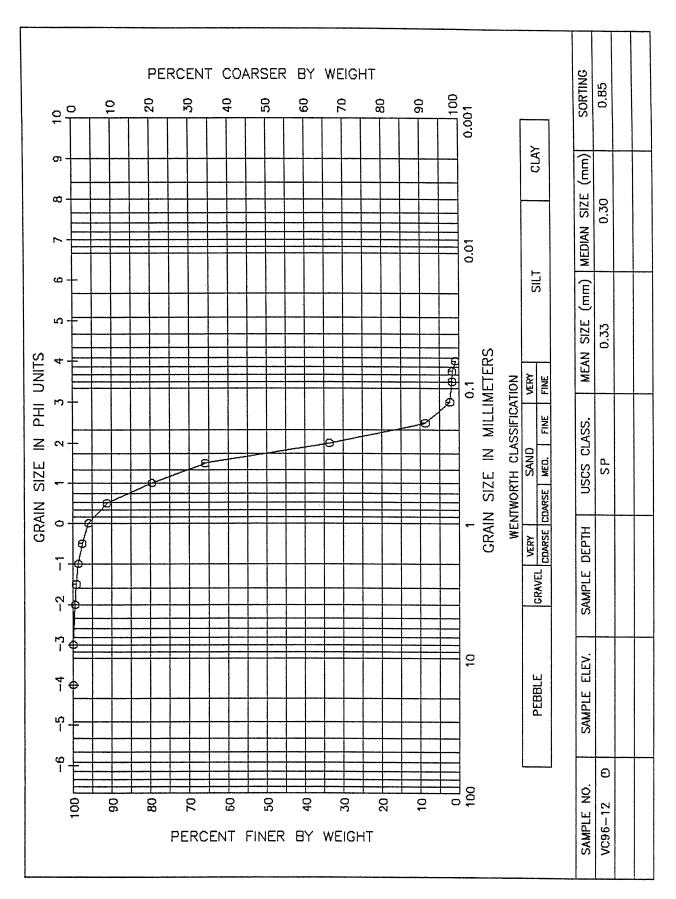
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



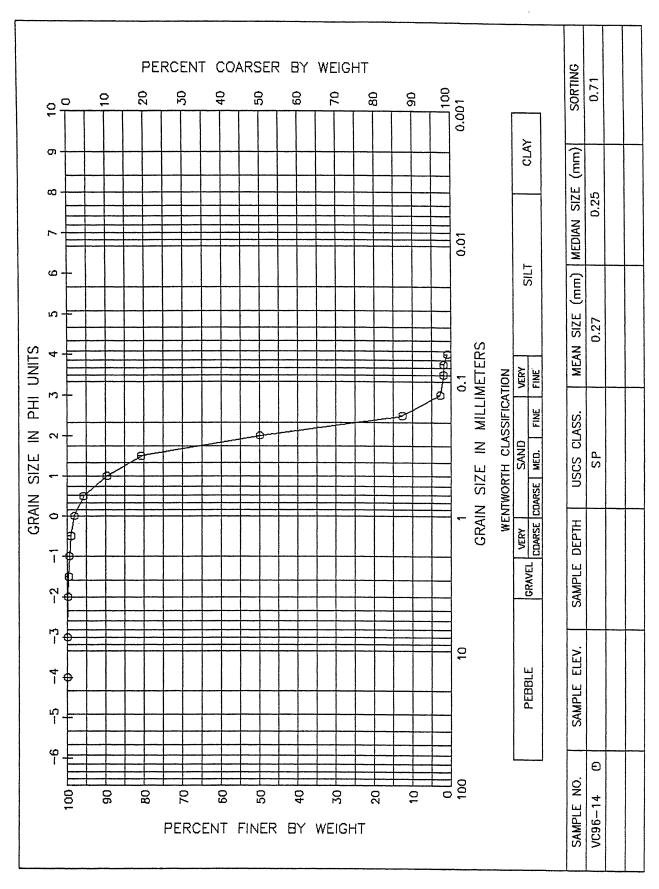
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES BA I 10/96



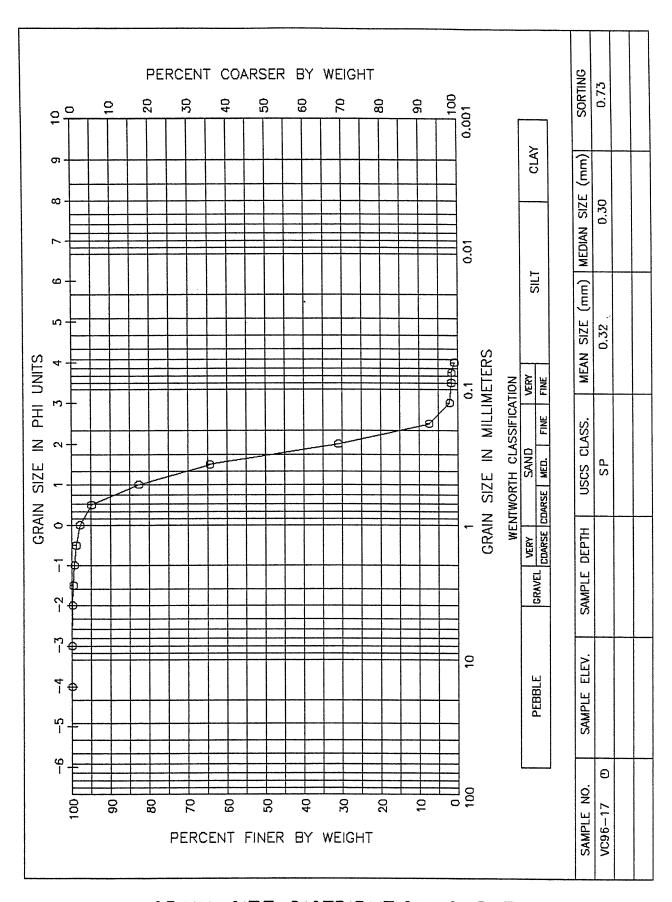
## EACH CORE DISTRIBUTION CURVES



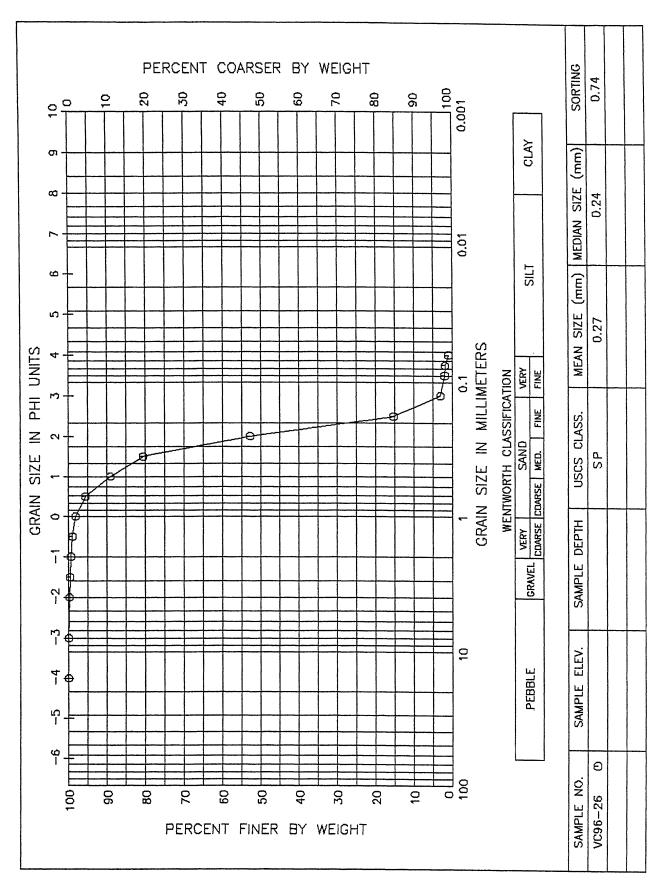
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



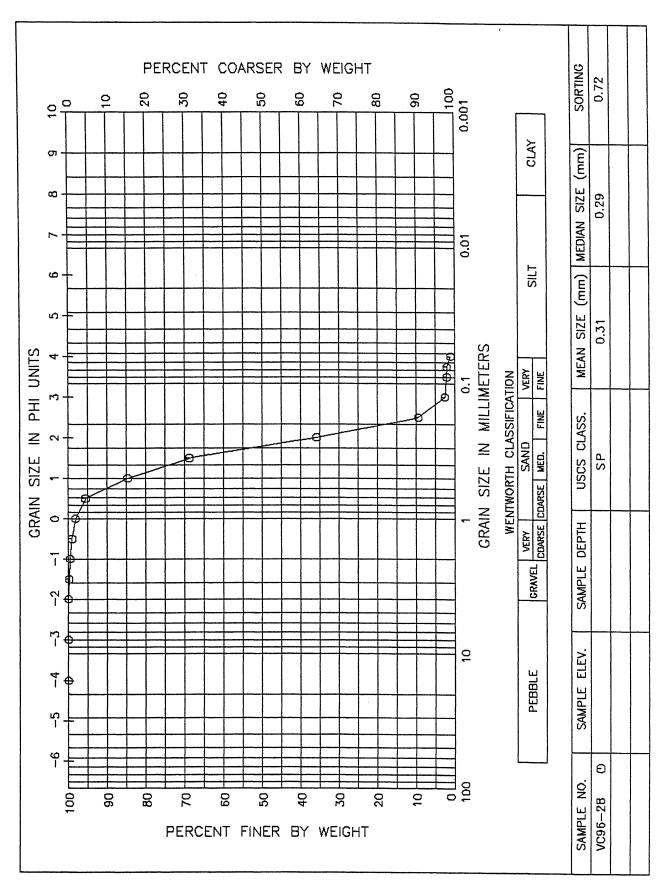
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



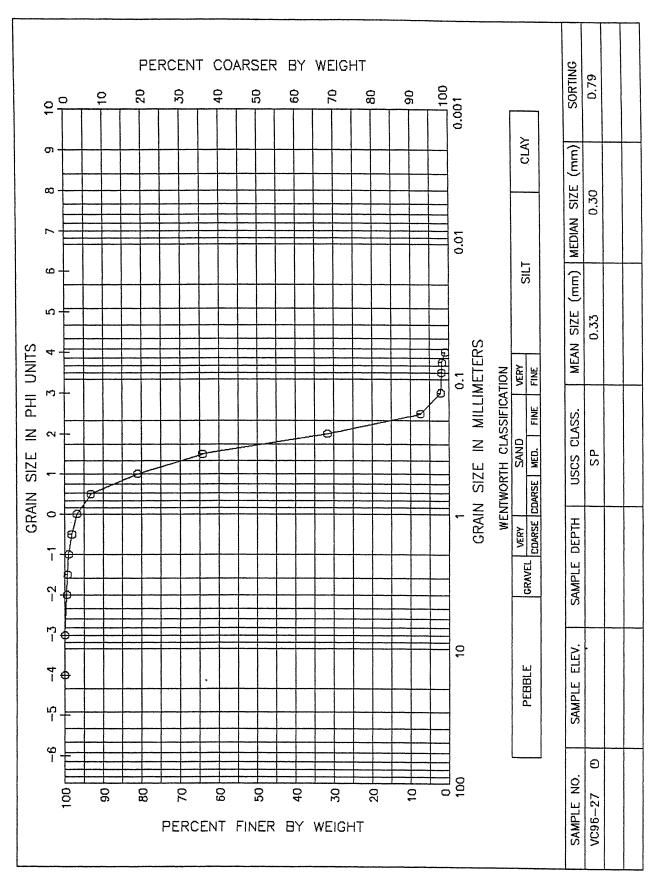
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



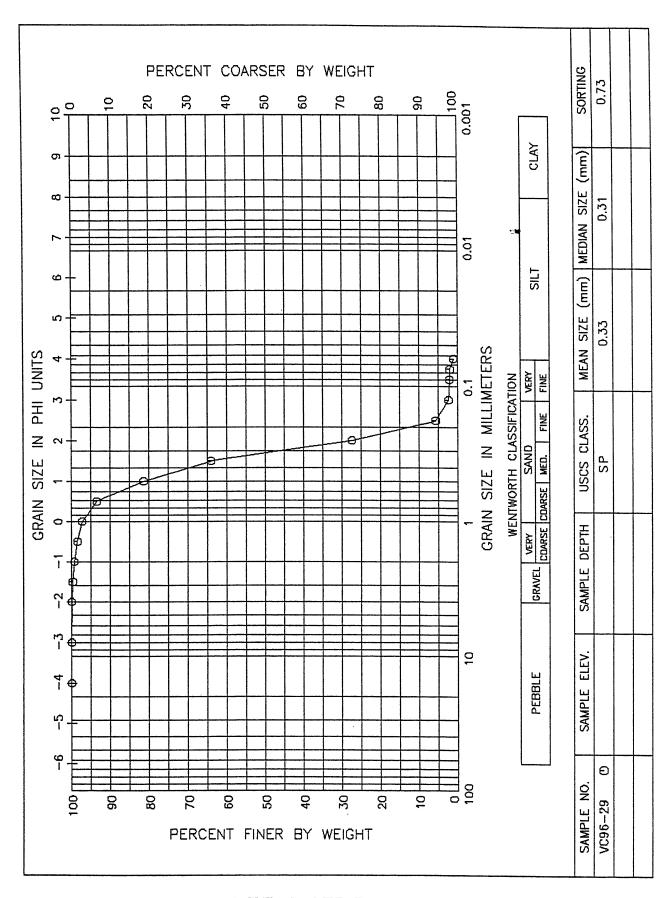
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



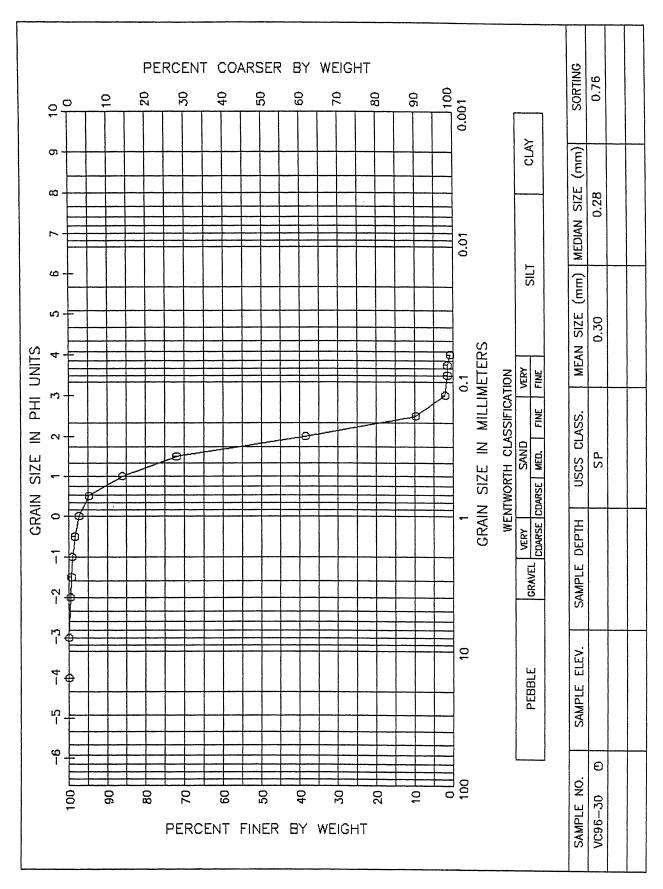
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



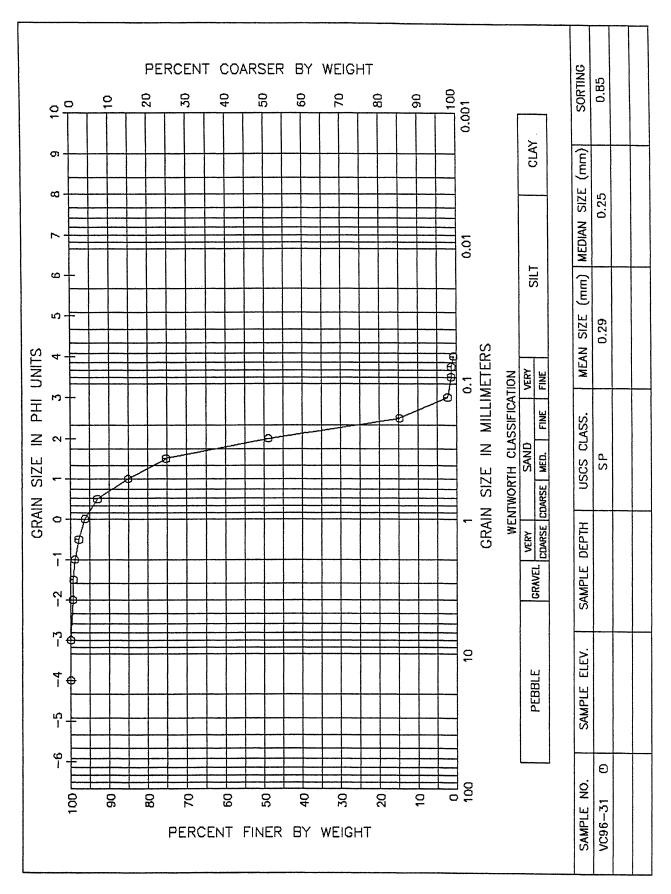
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



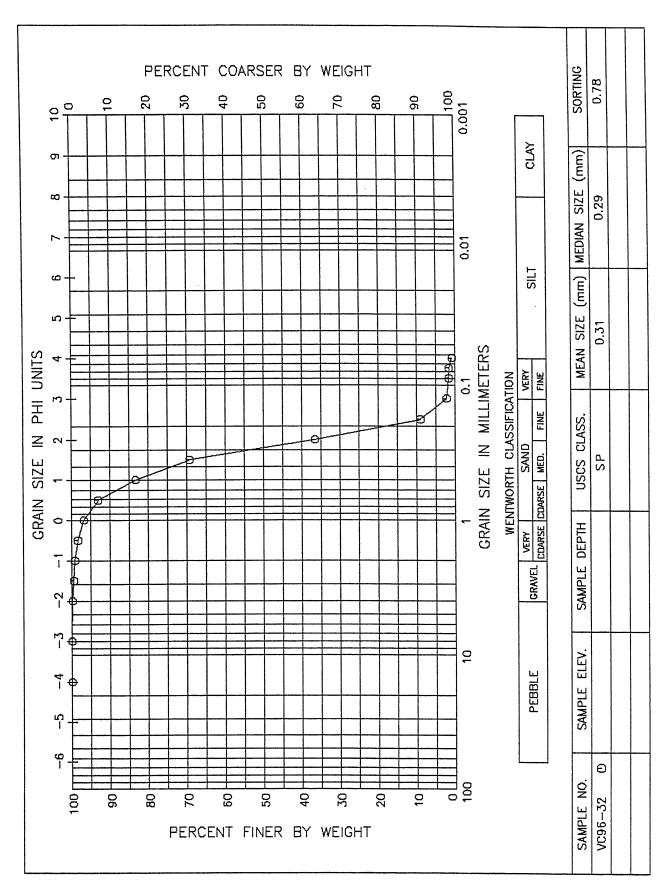
GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



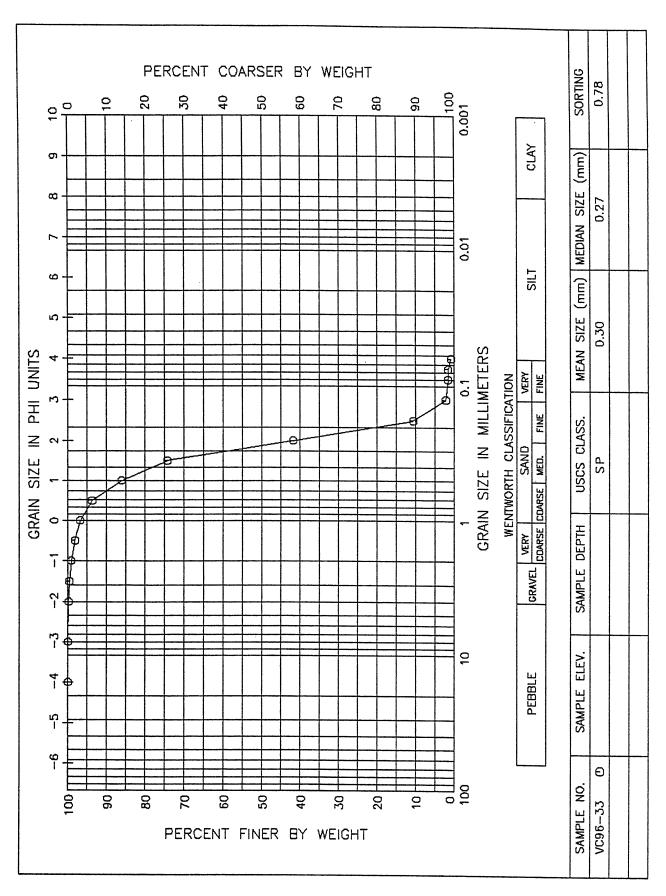
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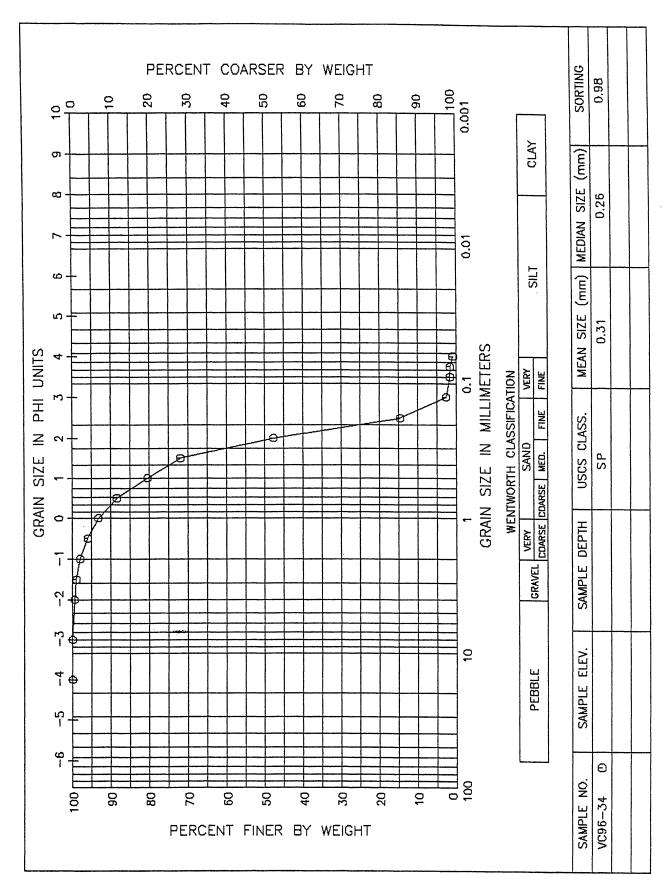
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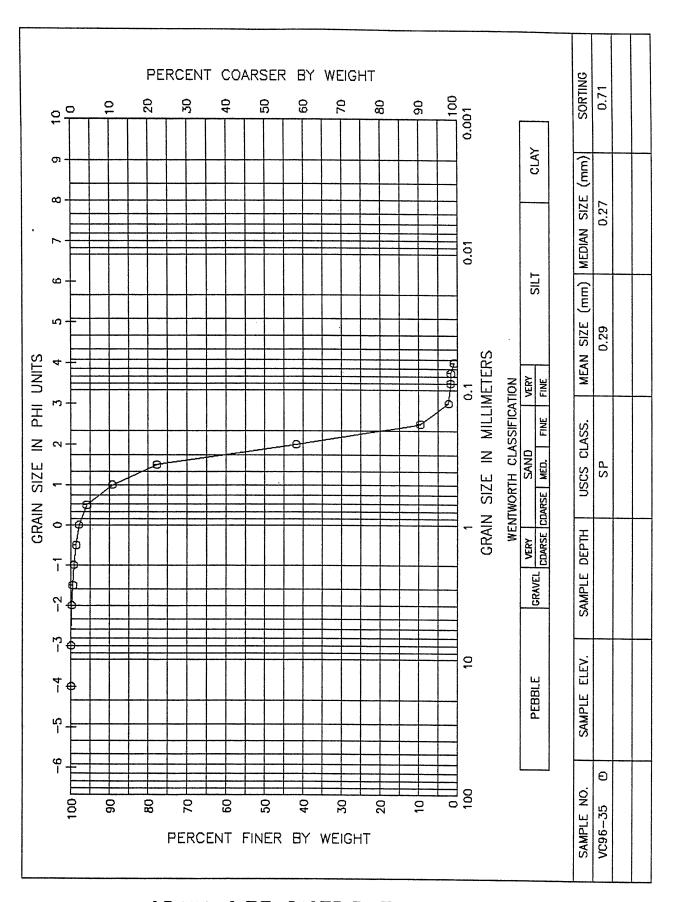
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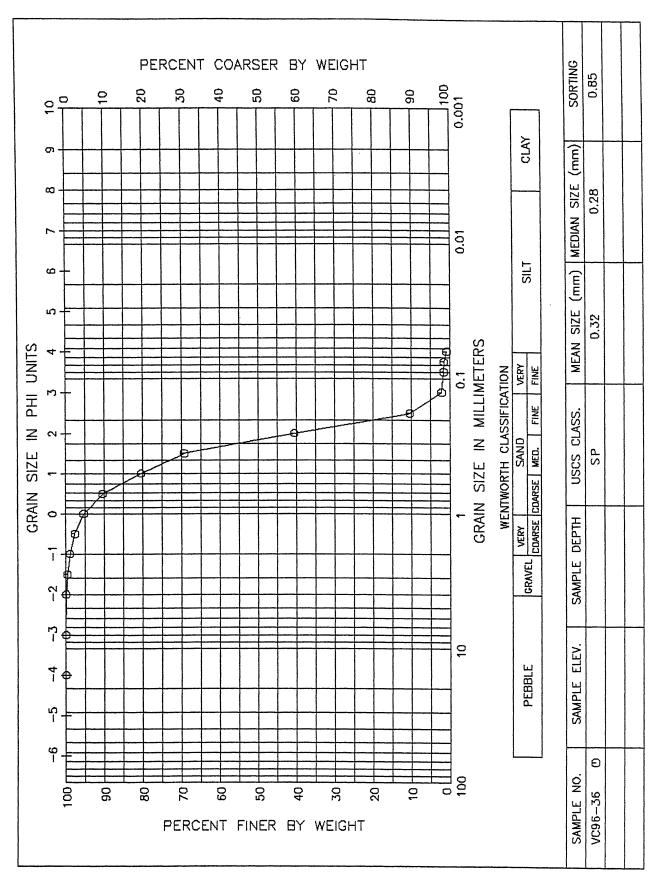
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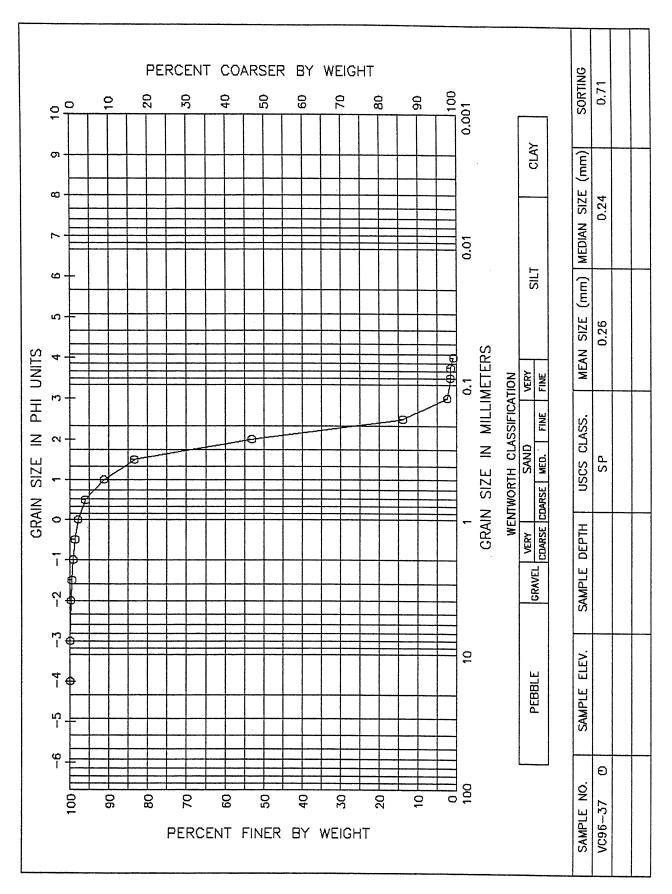
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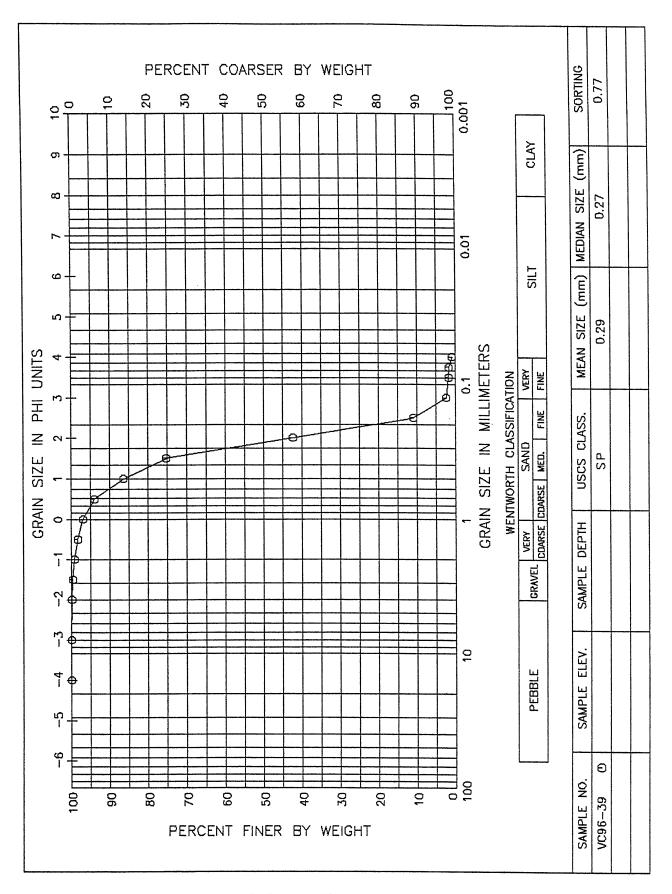
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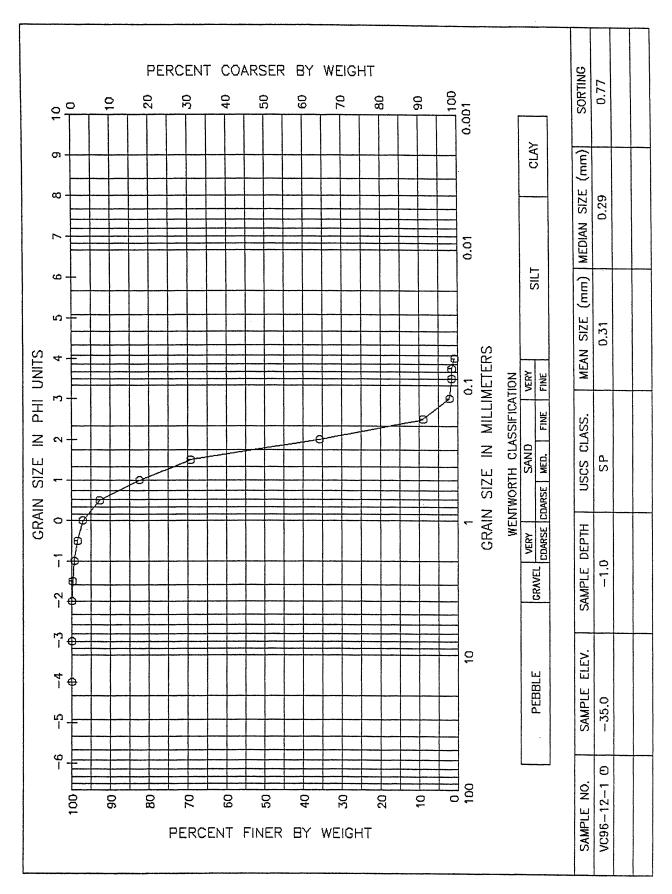


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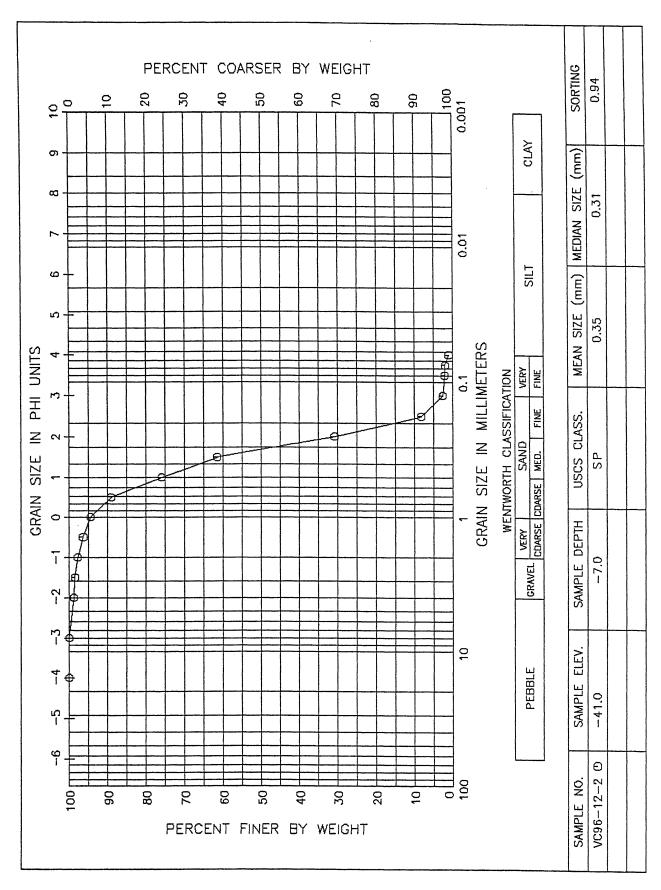


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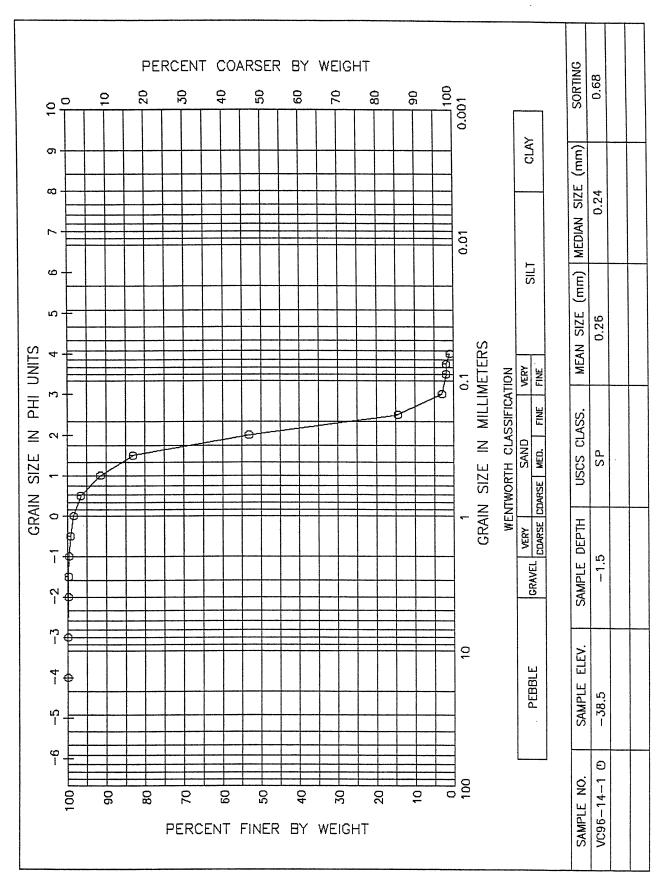
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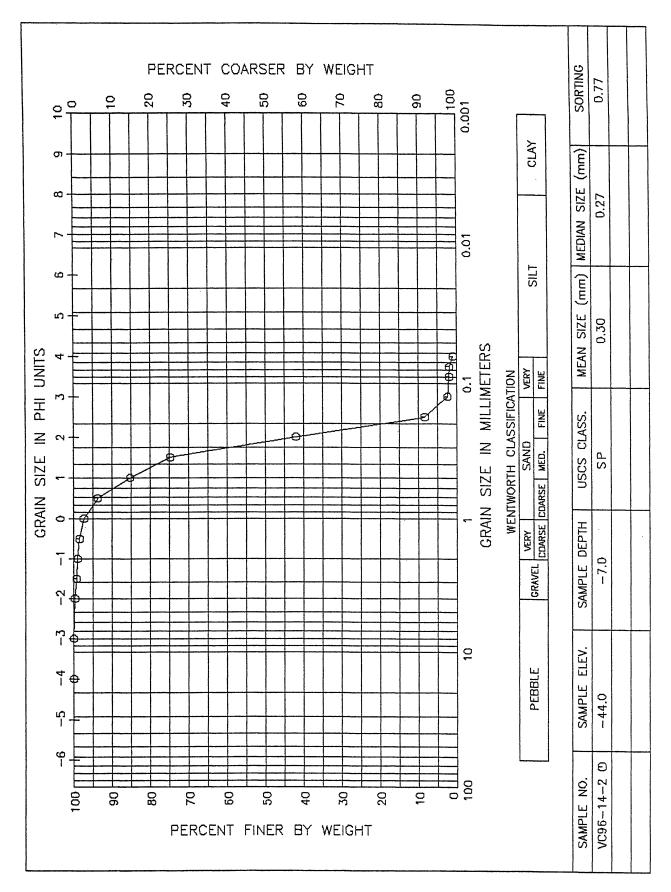
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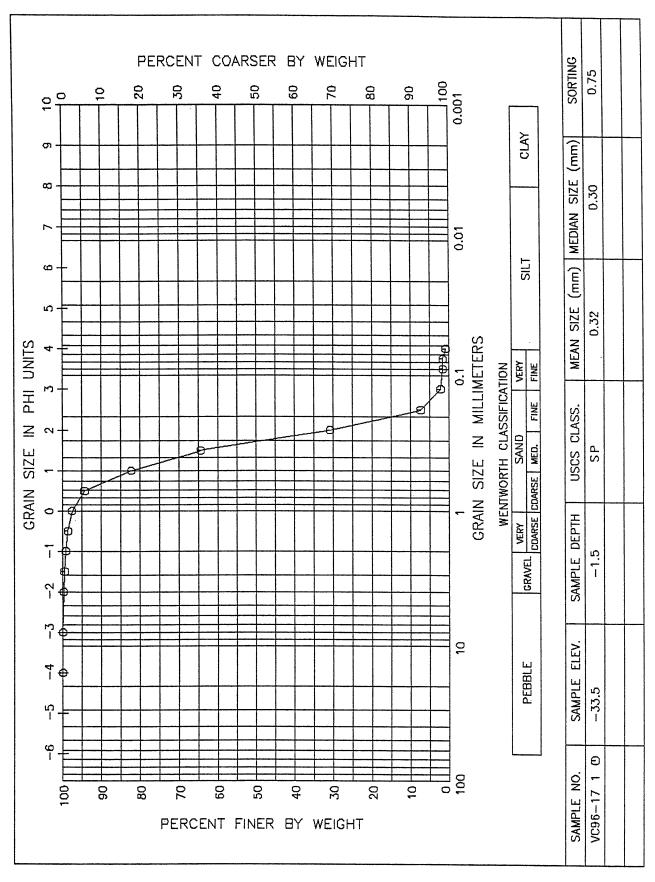
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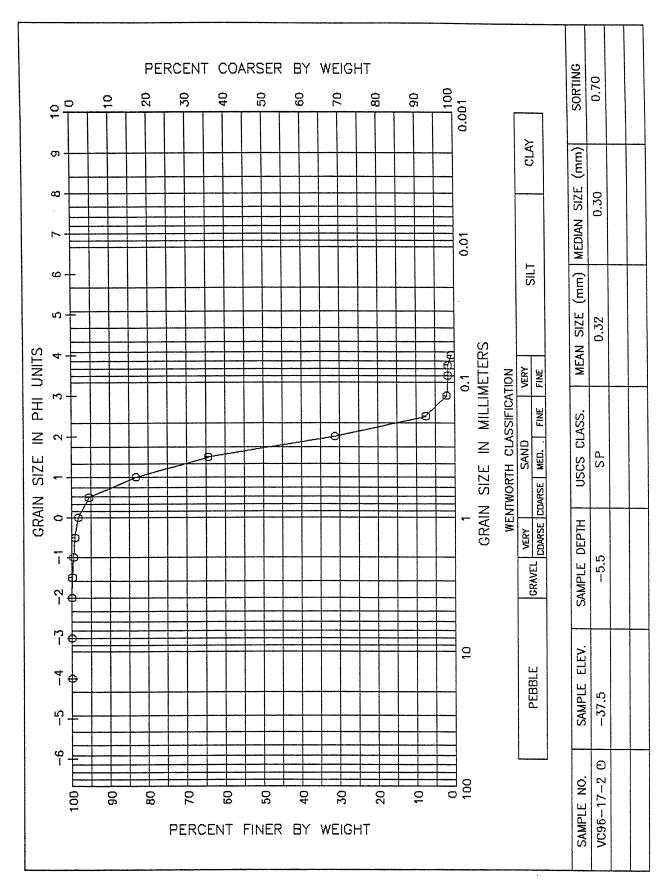
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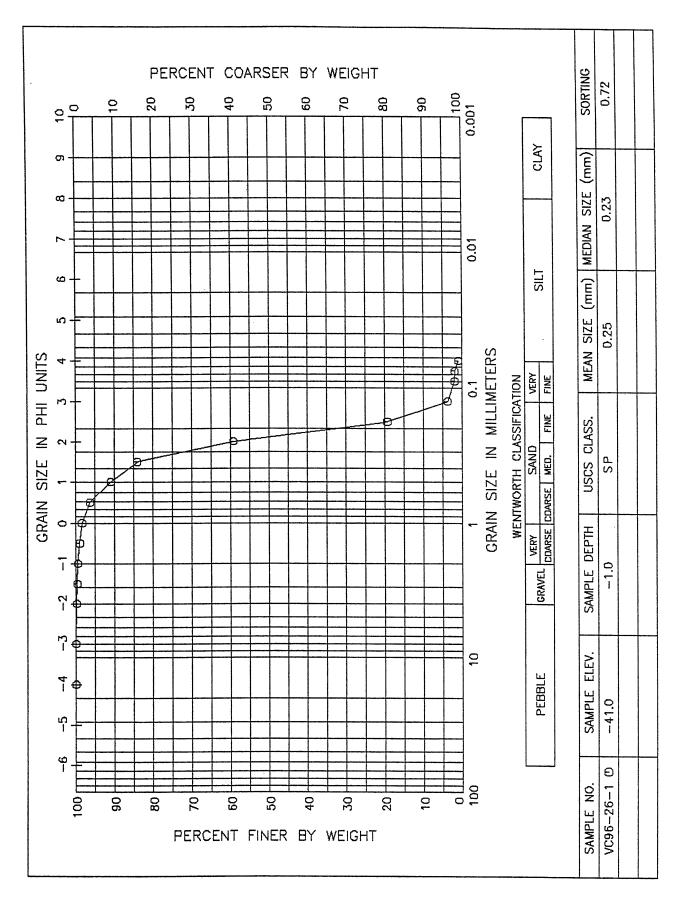
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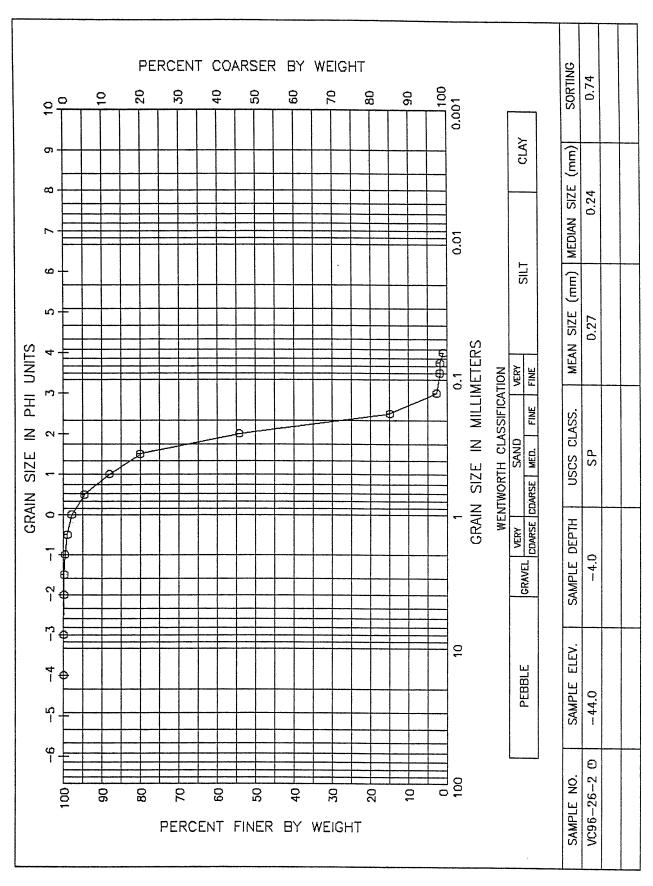
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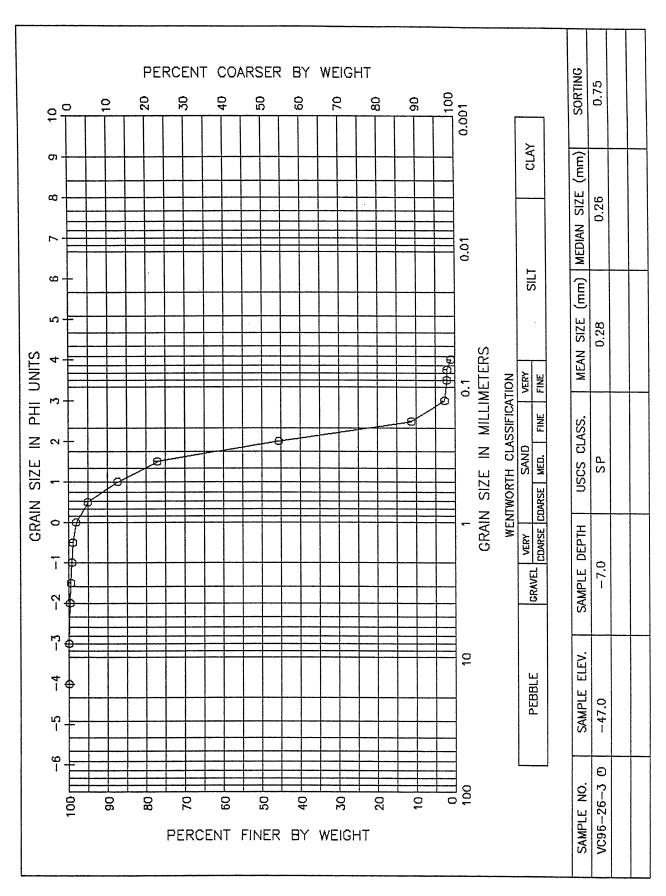
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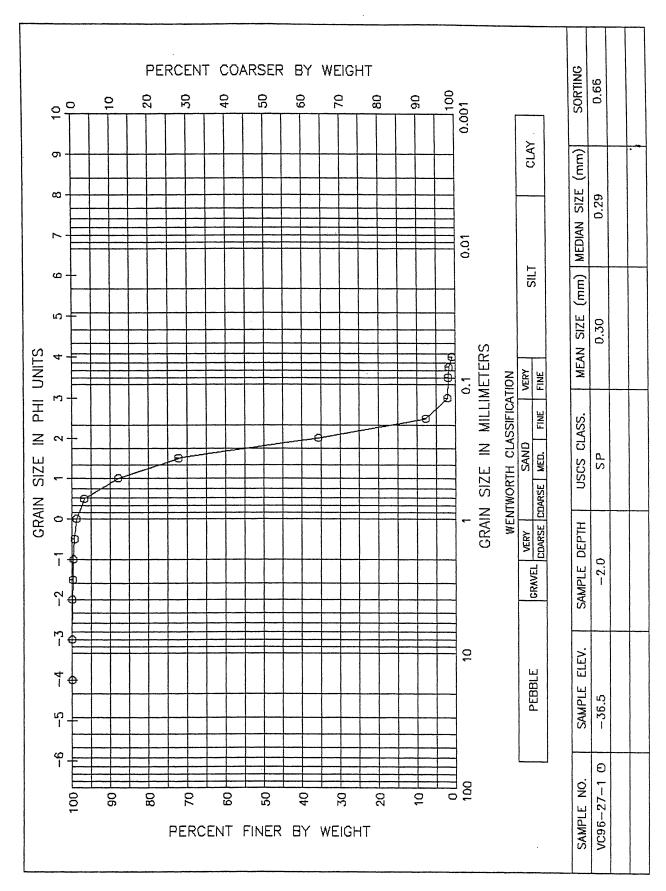
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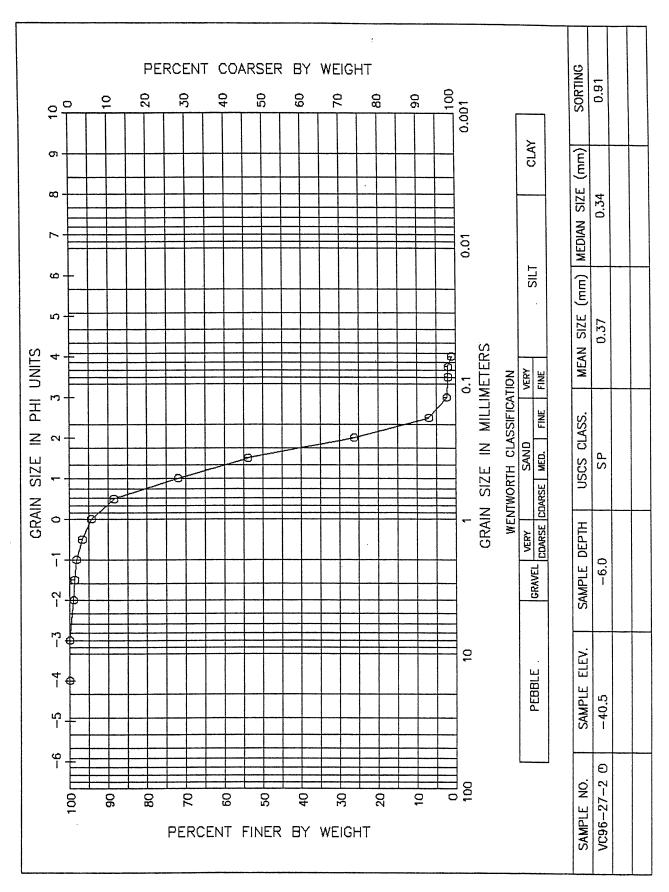
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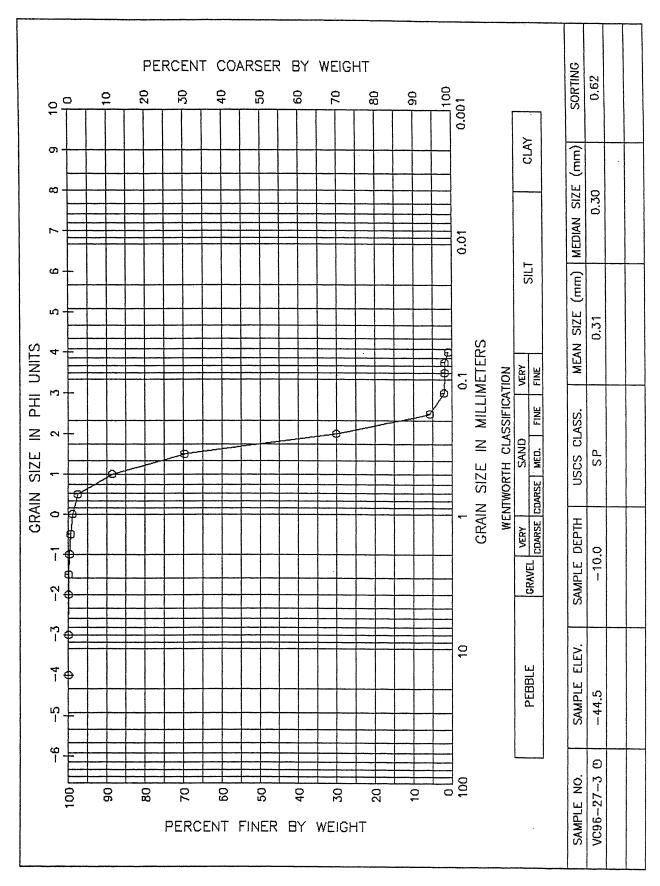
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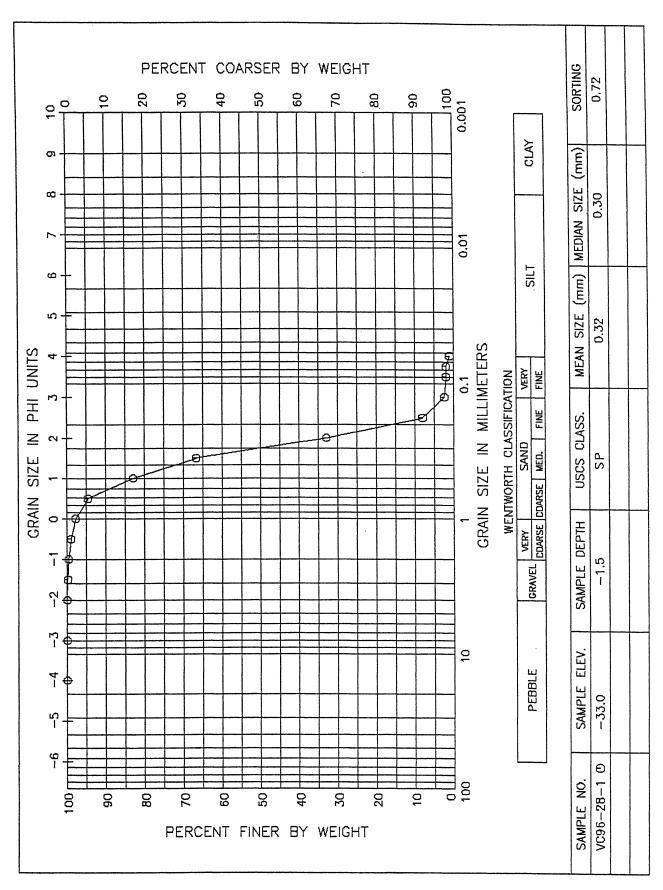
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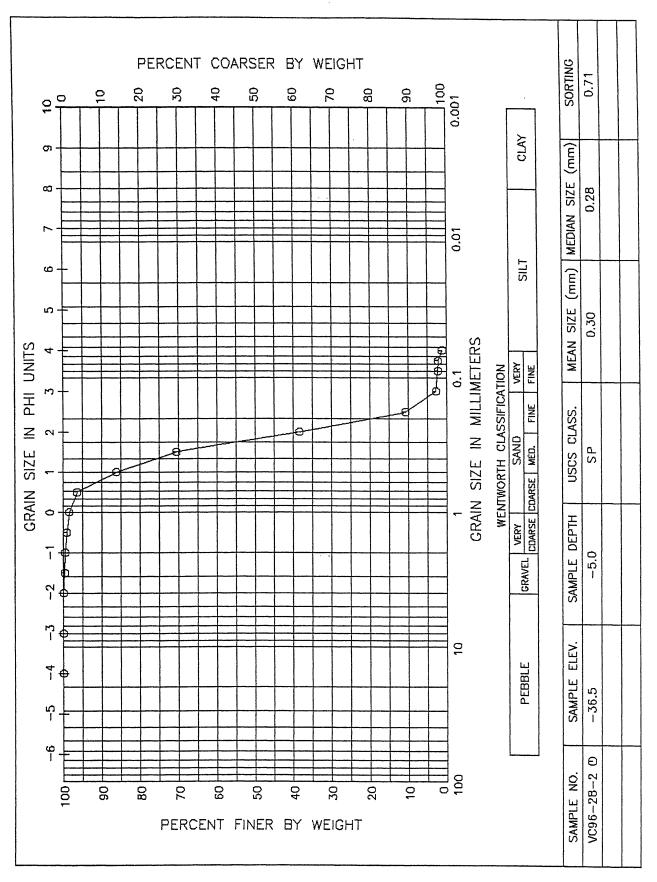
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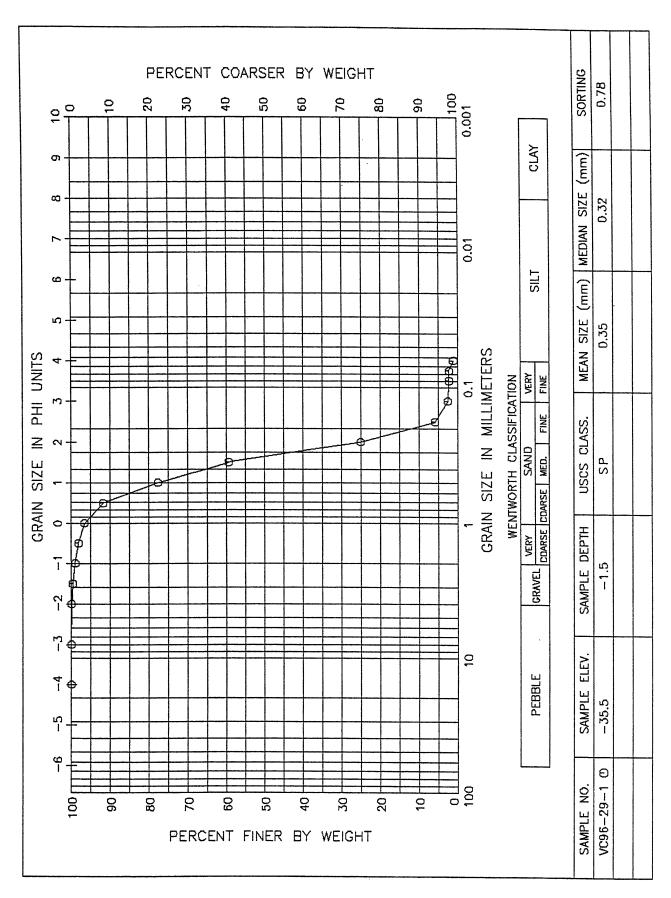
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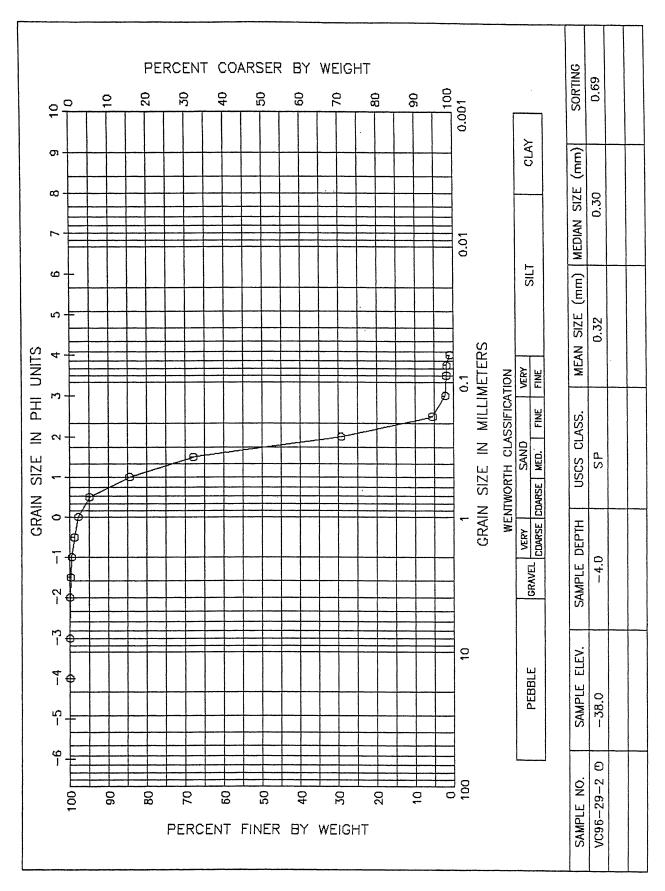
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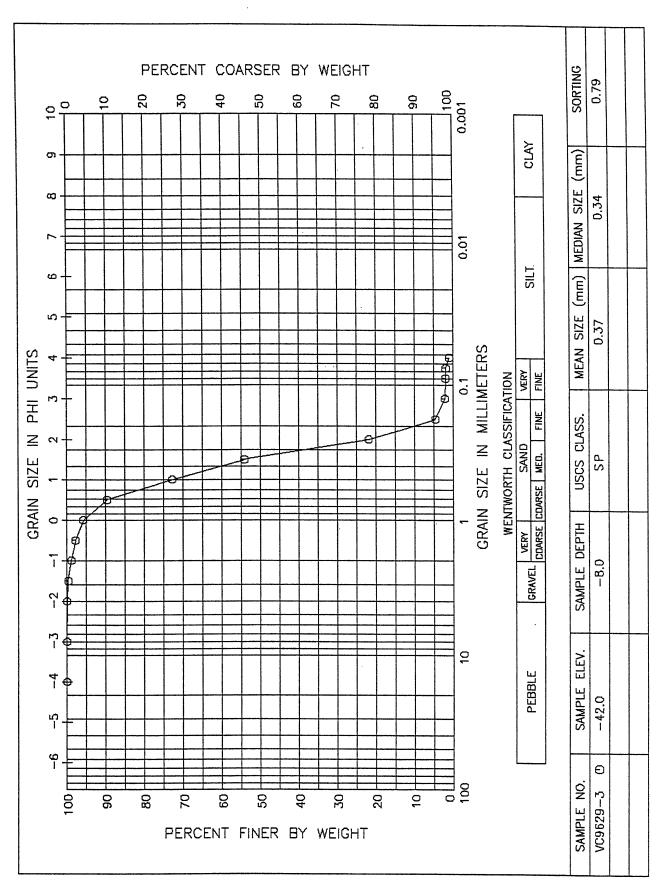
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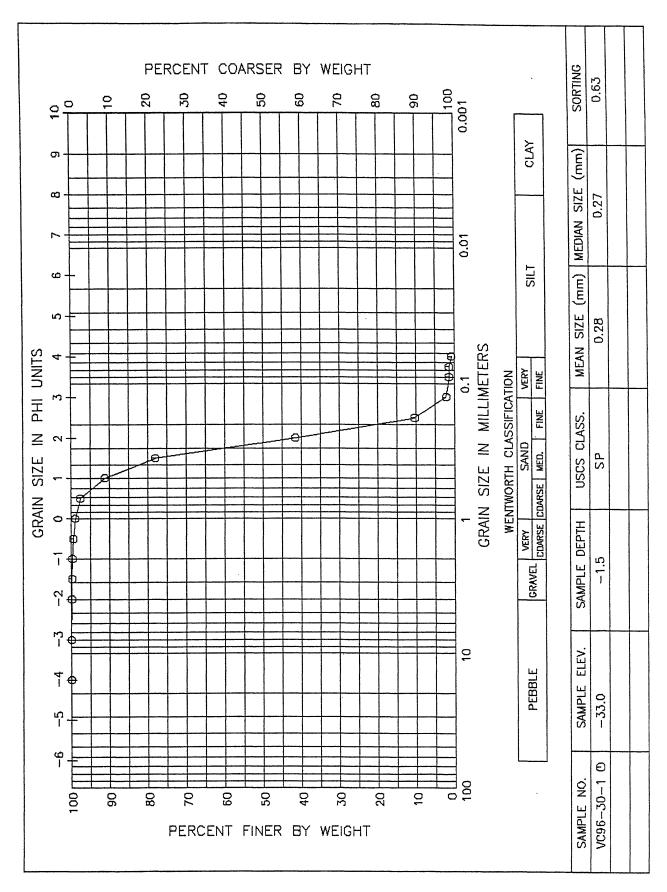
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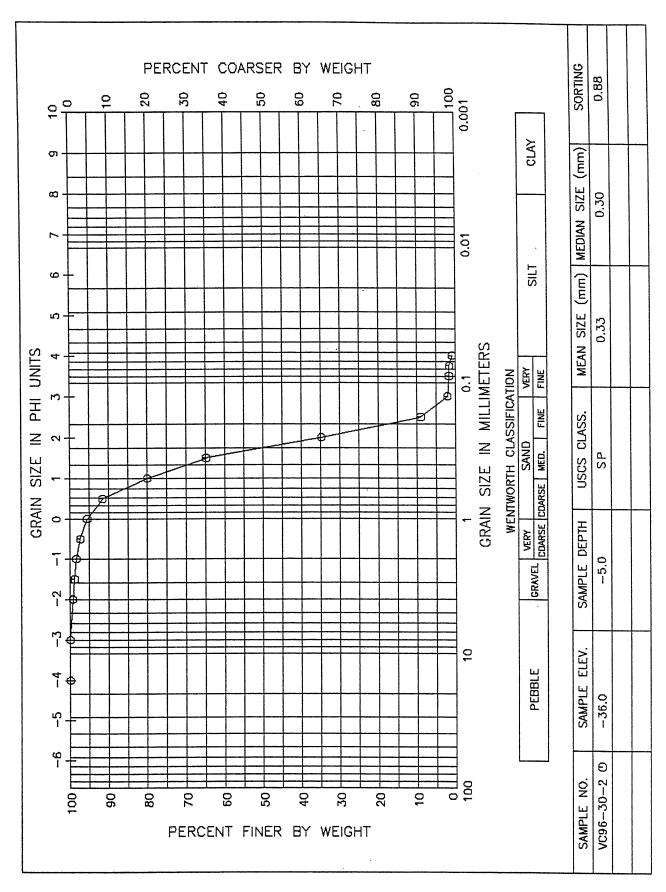
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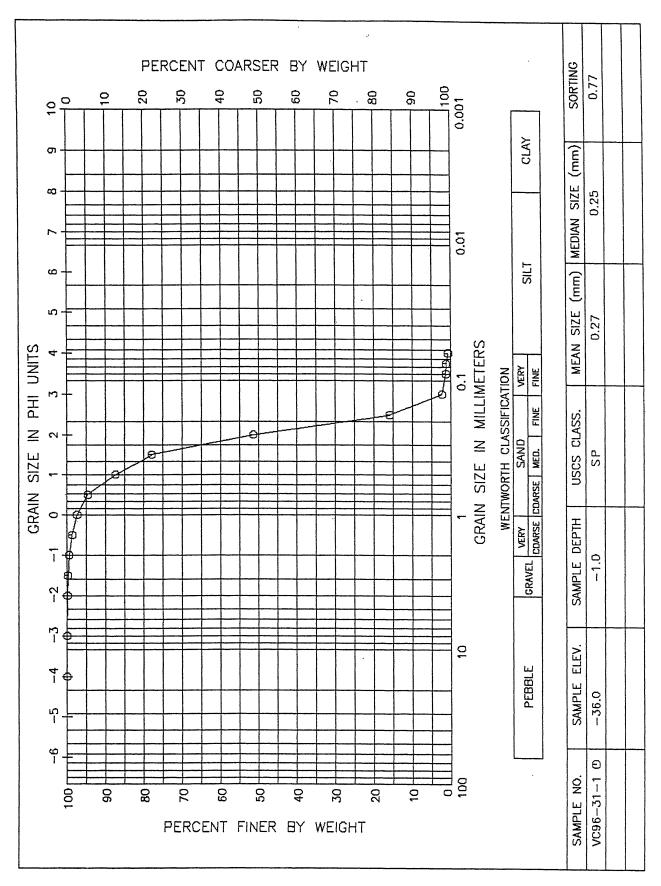
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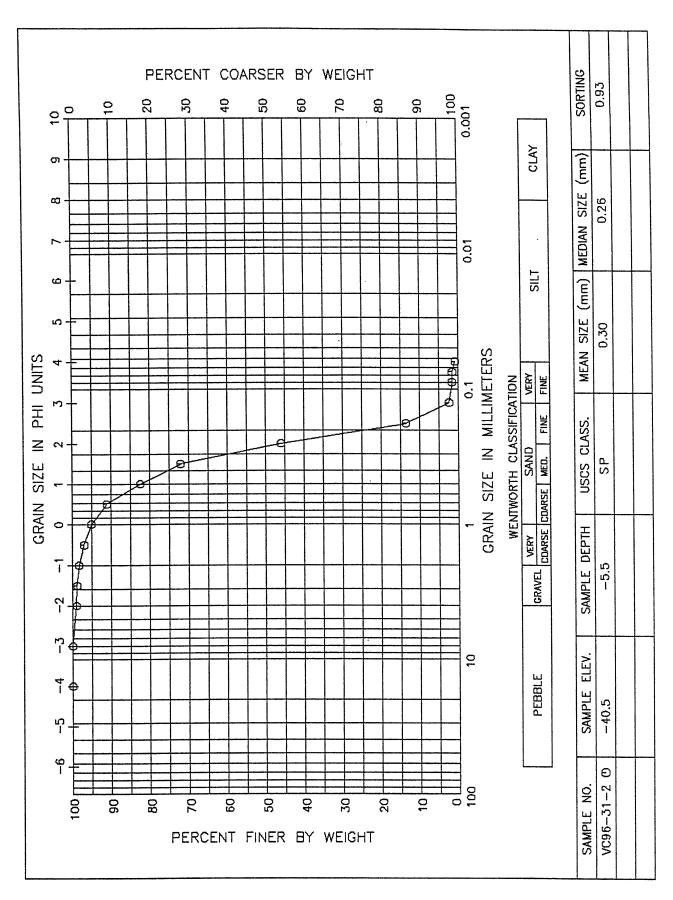
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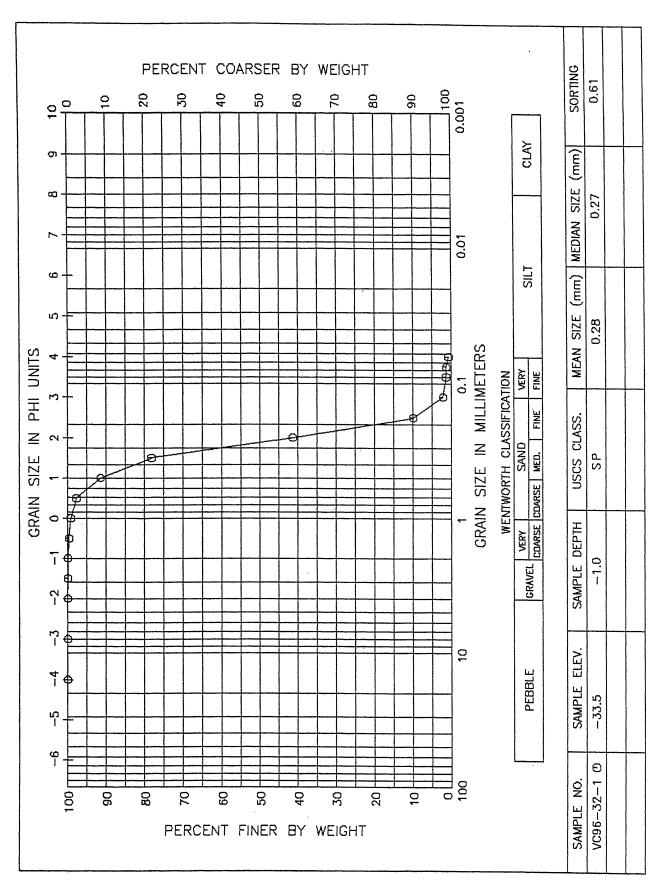
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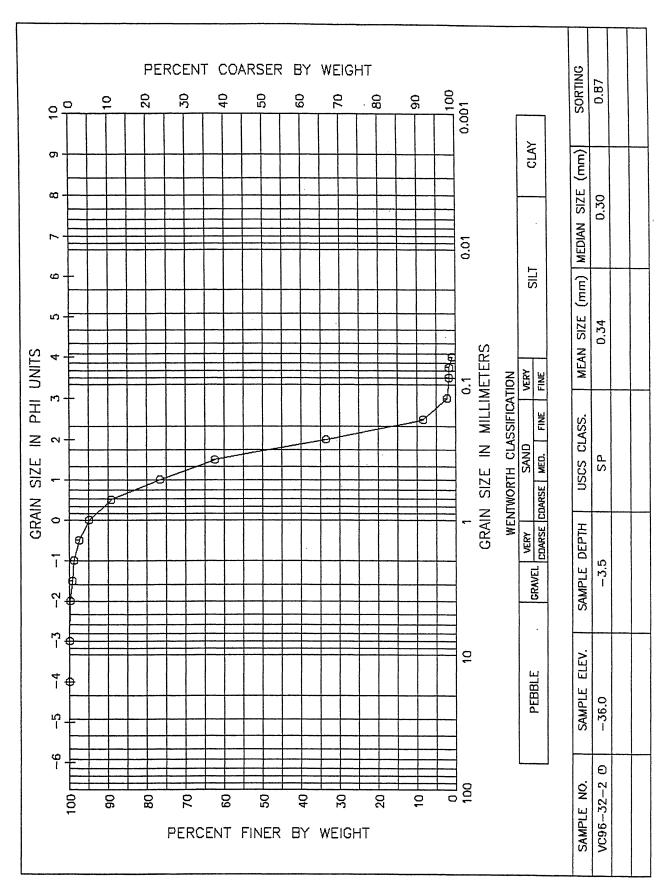
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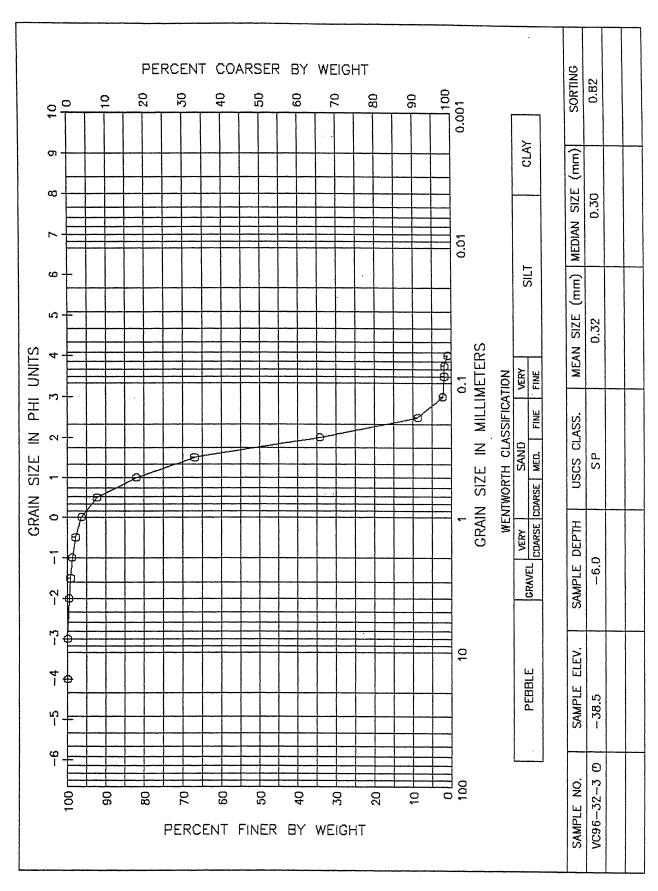
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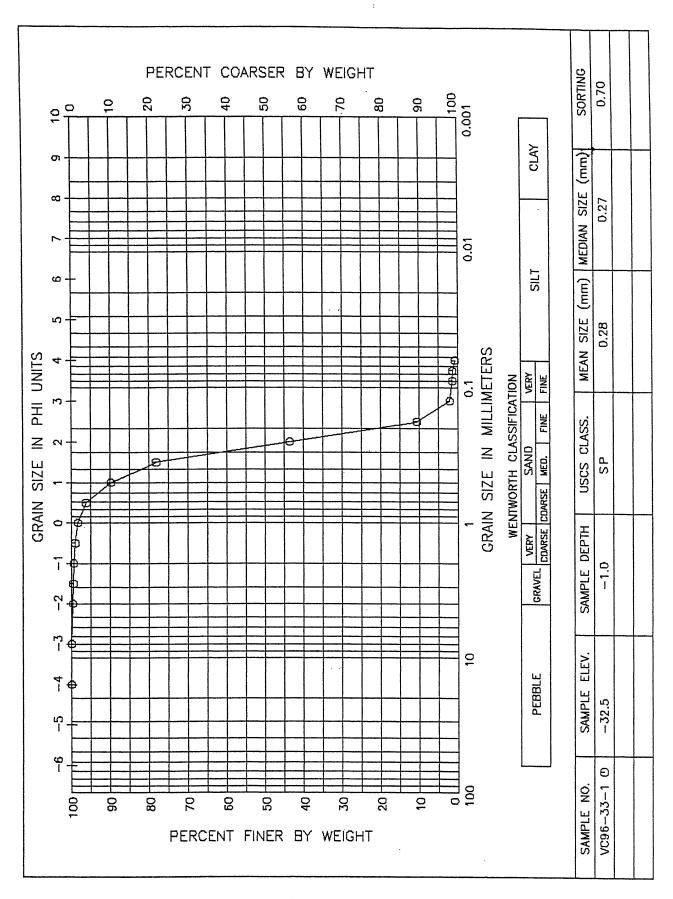
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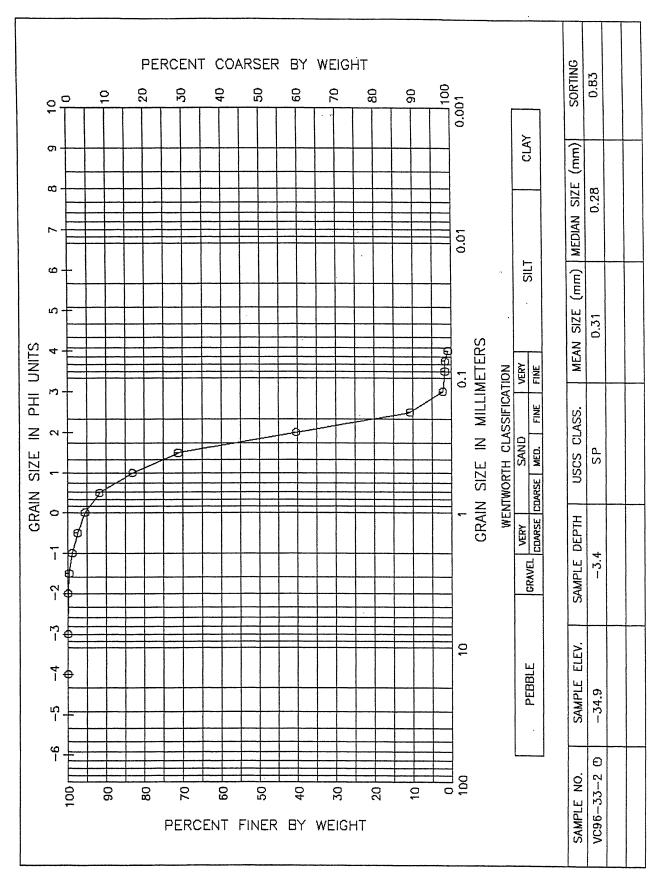
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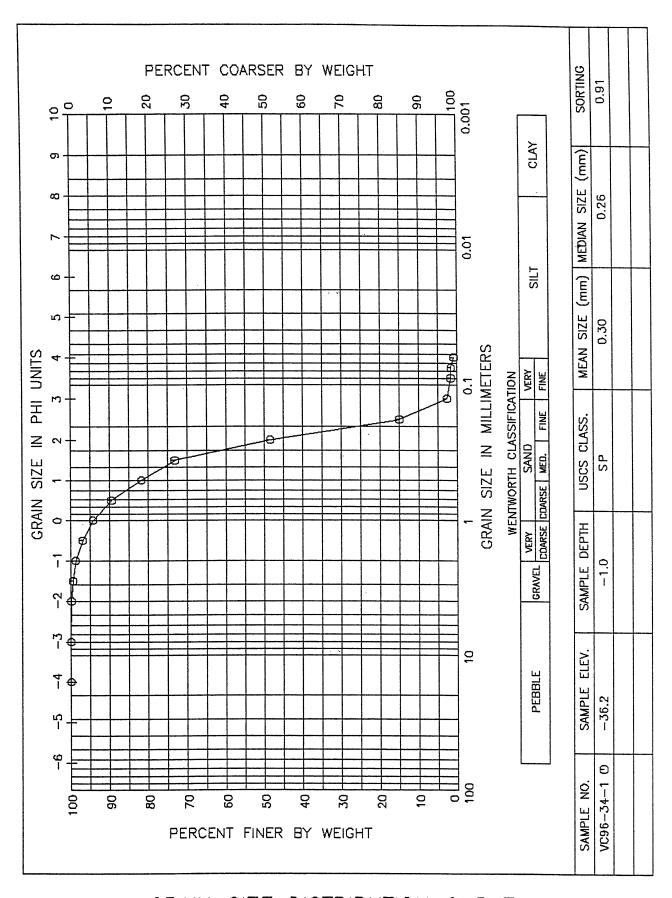
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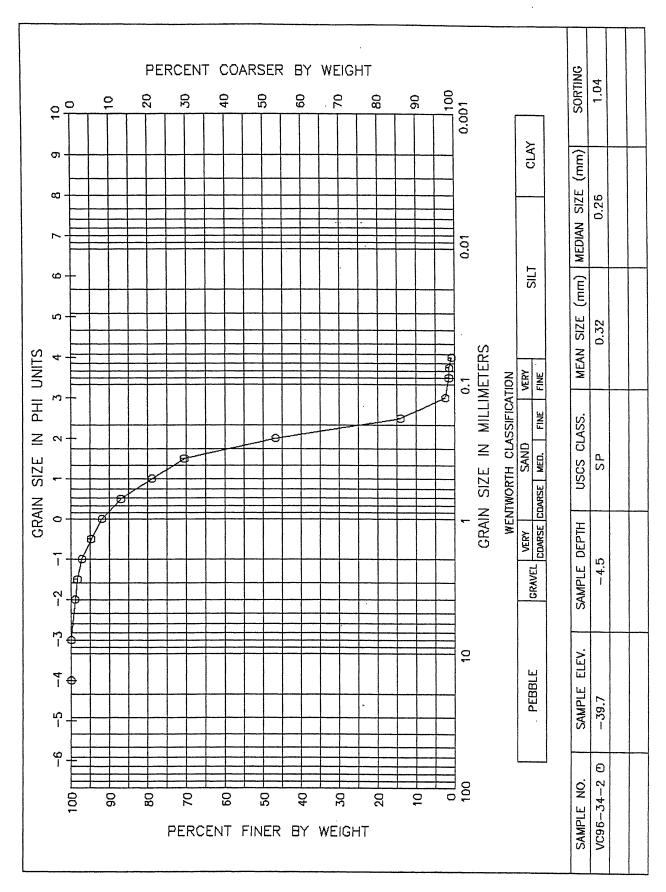
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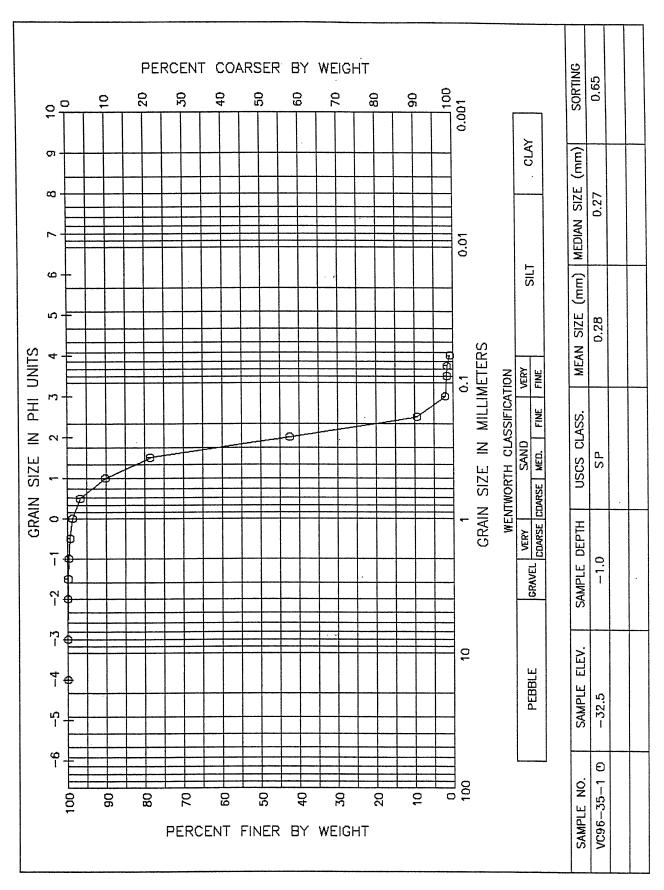
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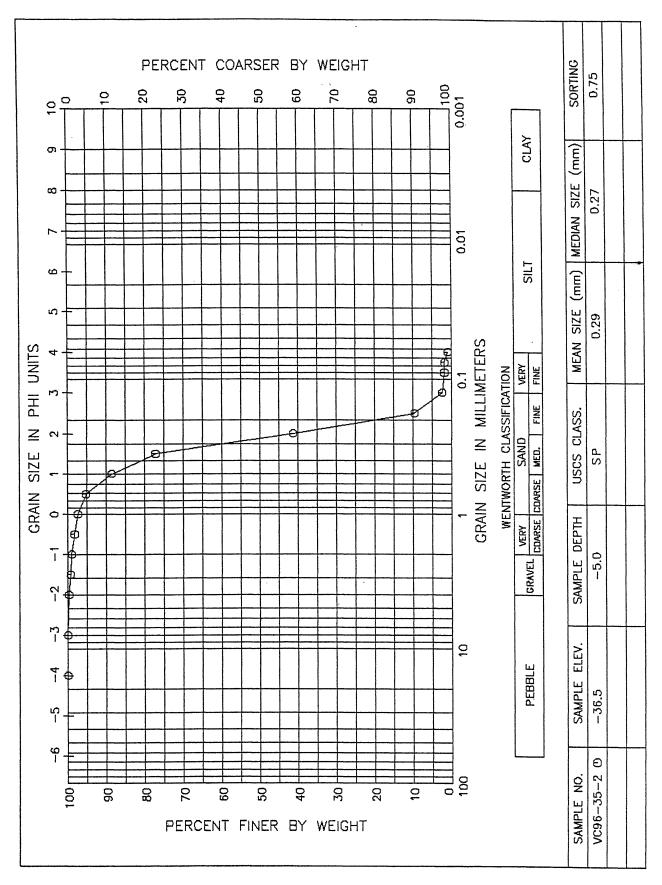
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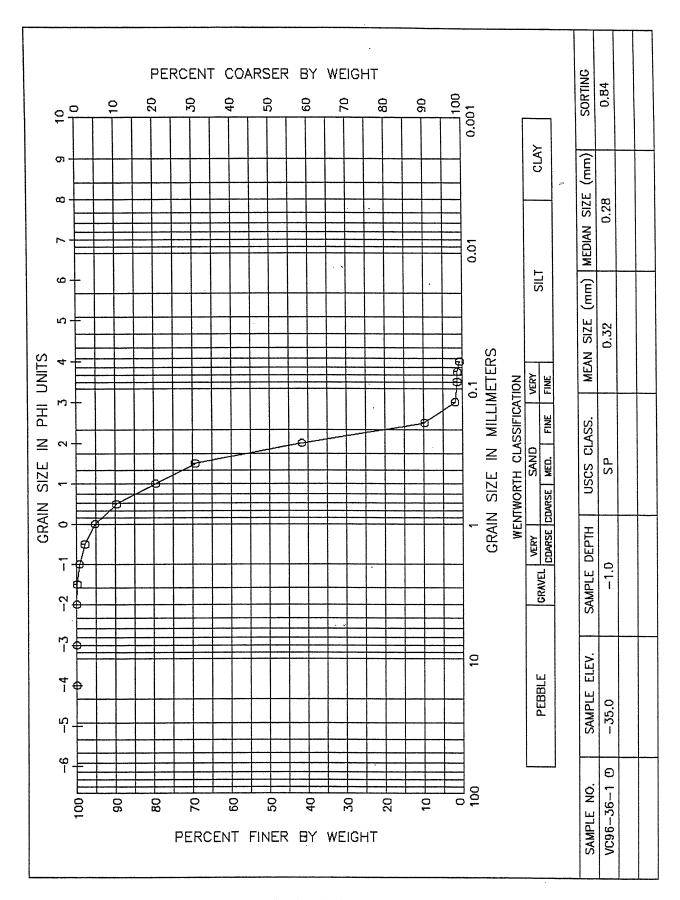
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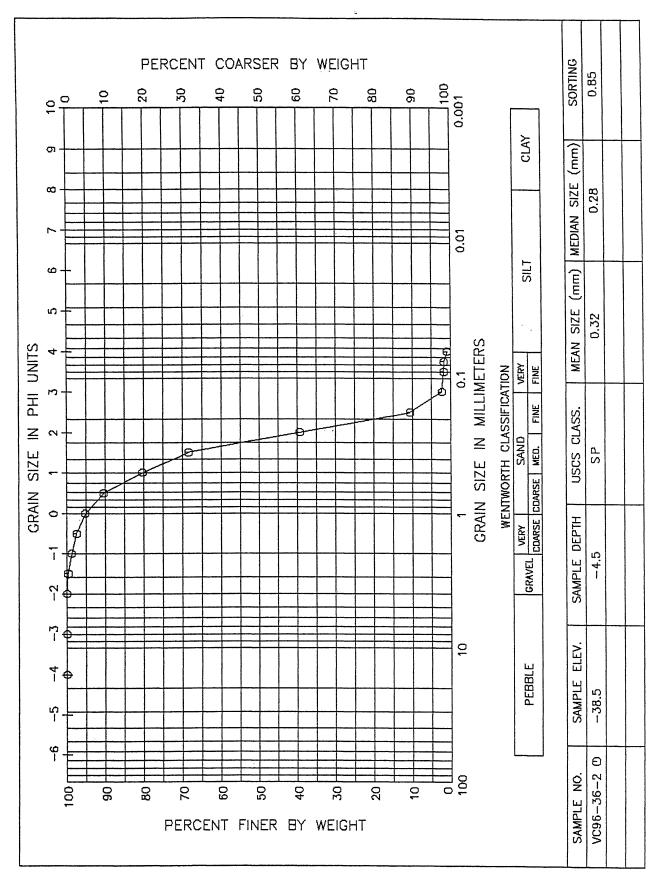
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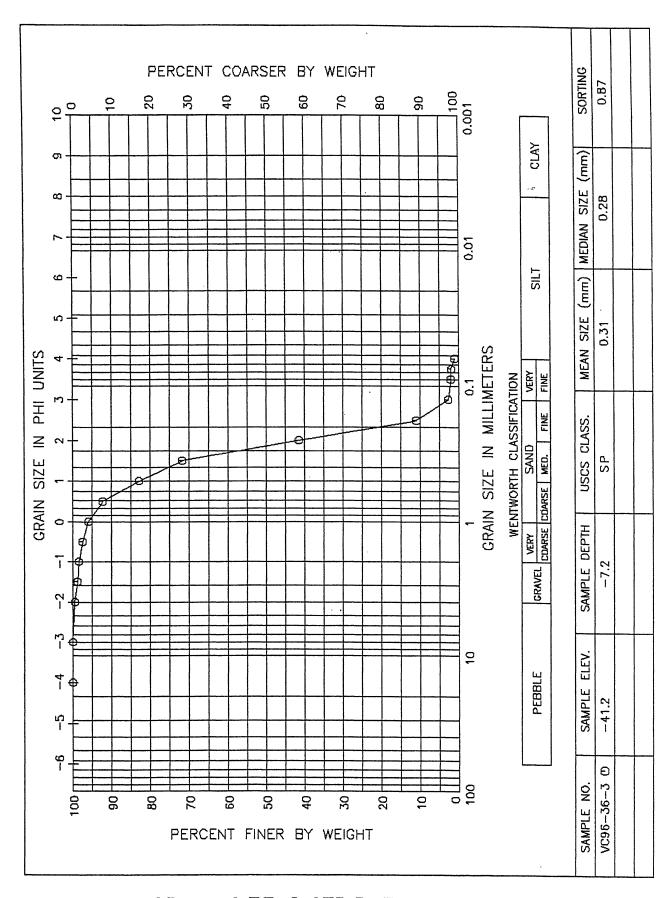
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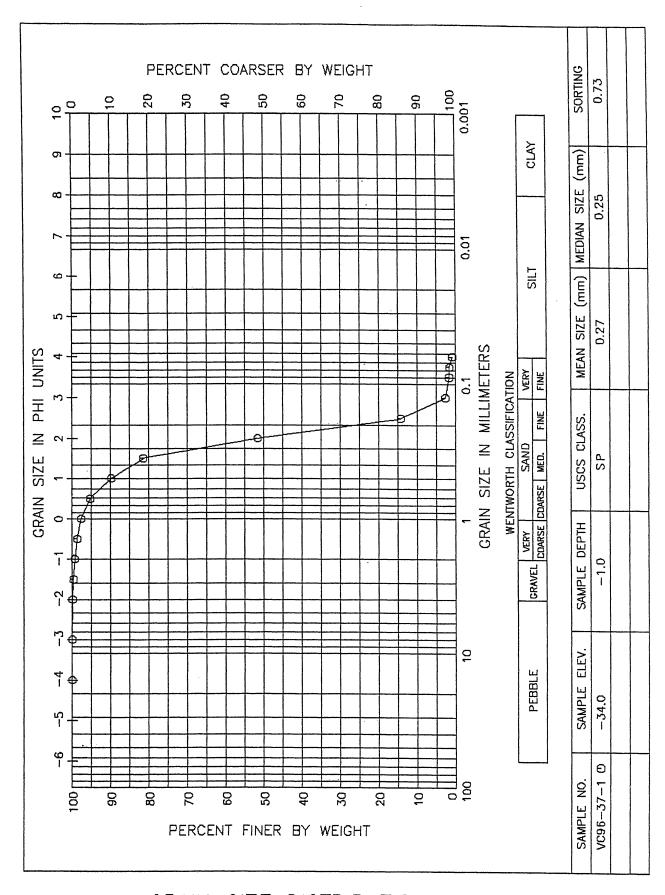
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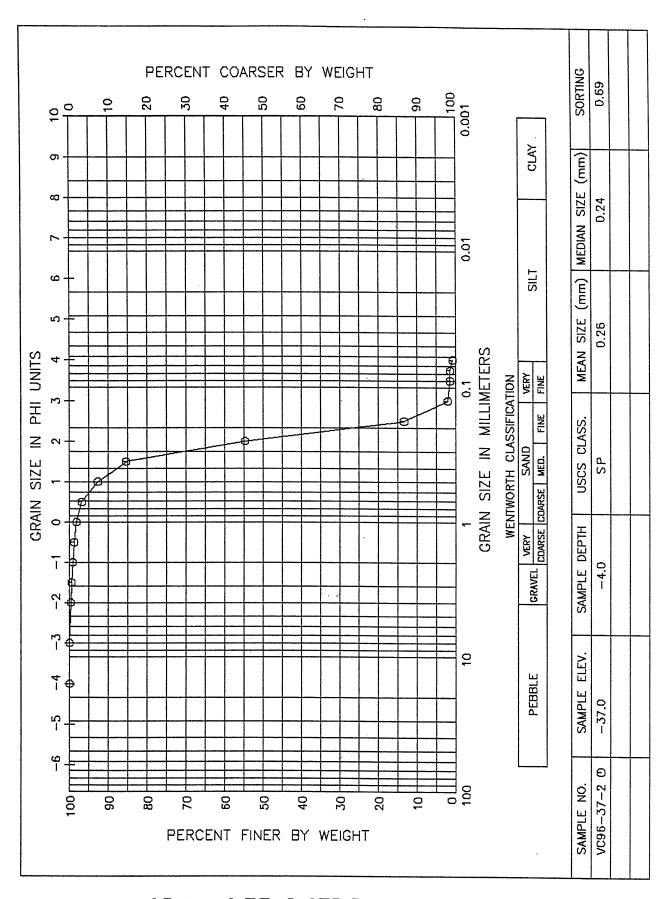
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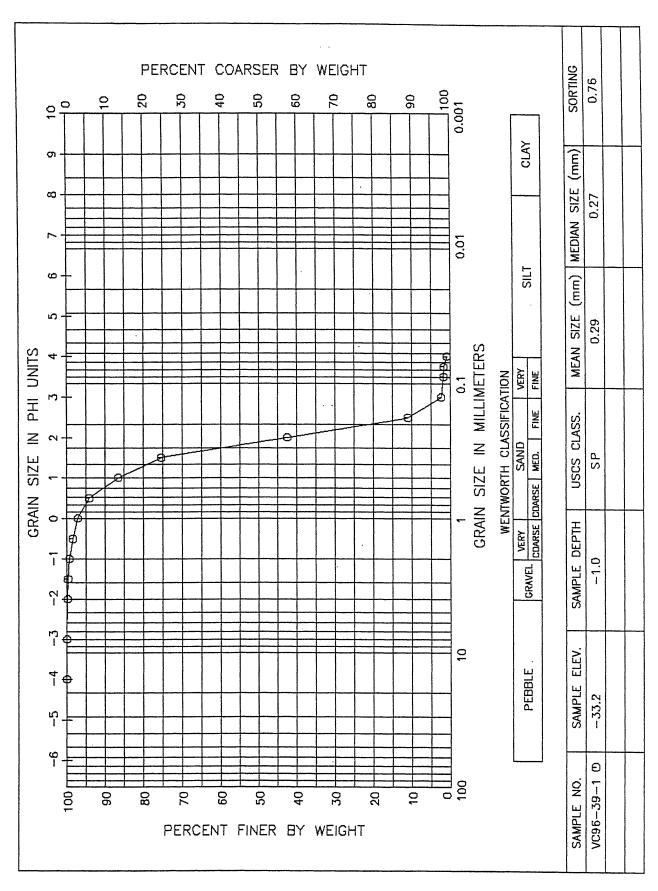
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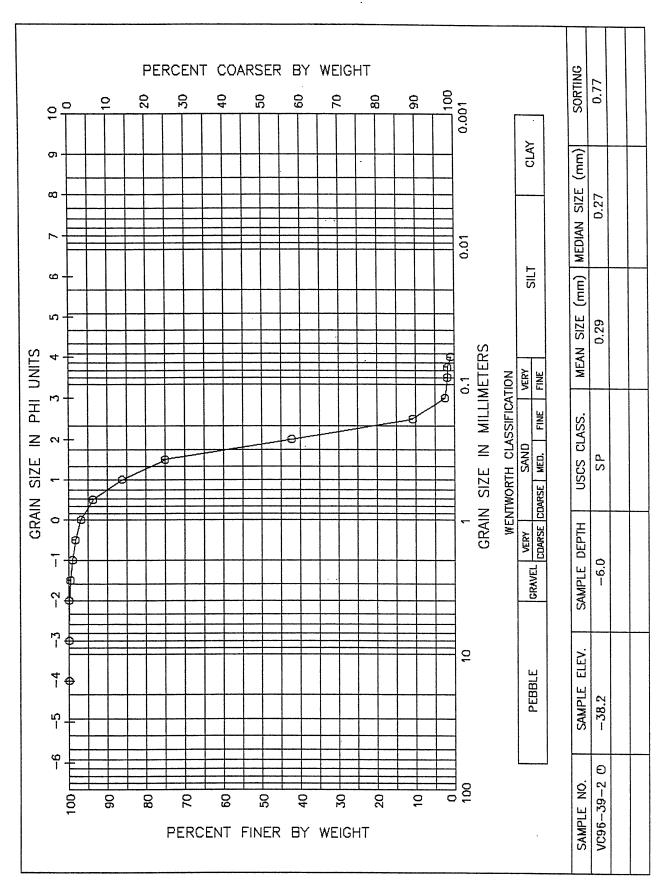
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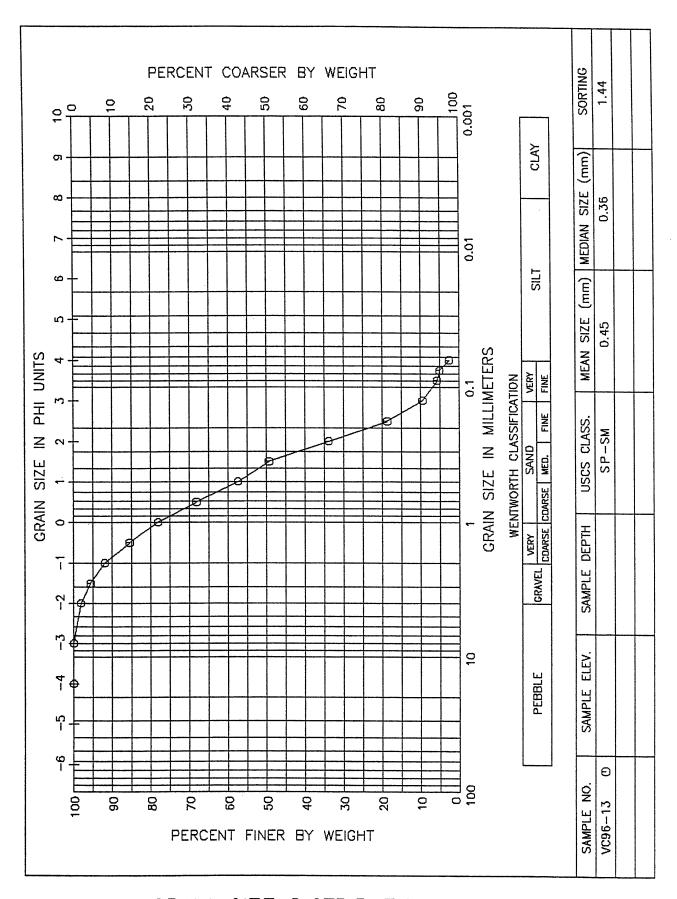
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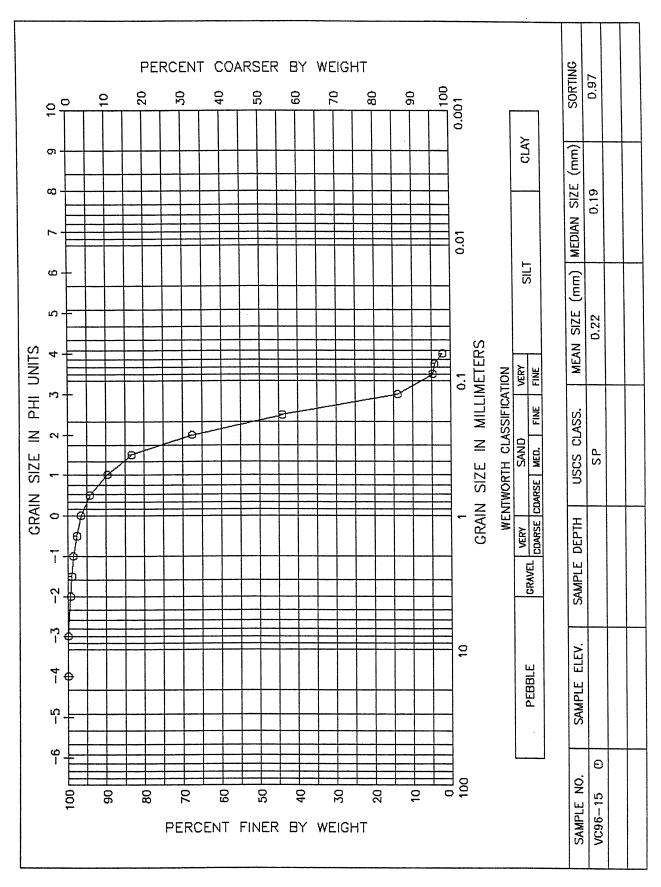
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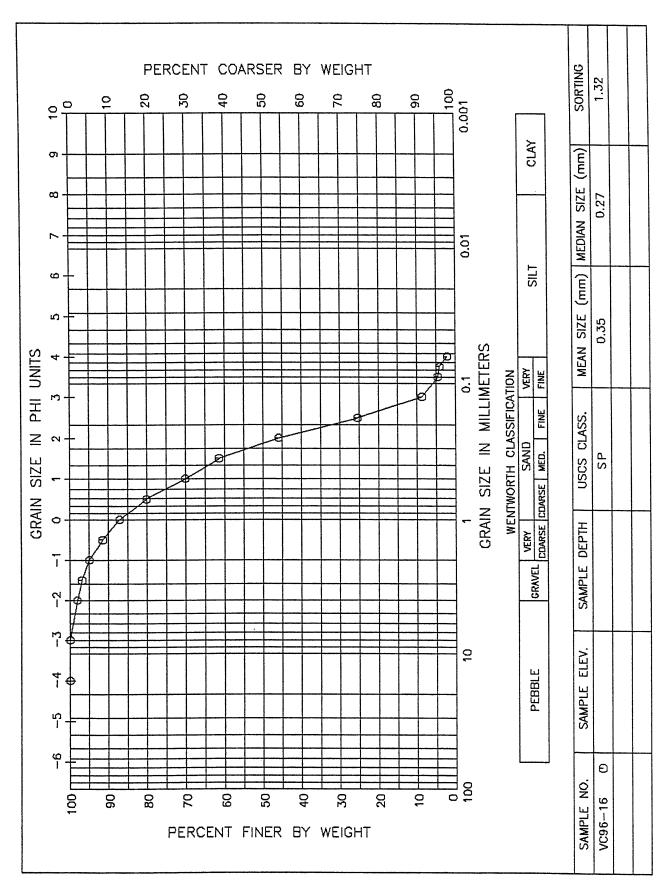
## EACH CORE DISTRIBUTION CURVES



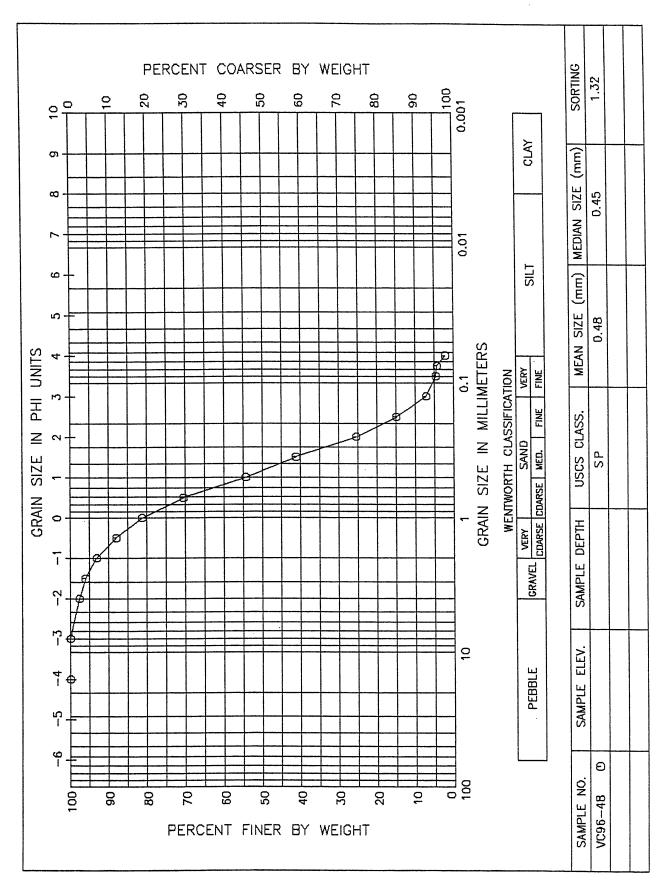
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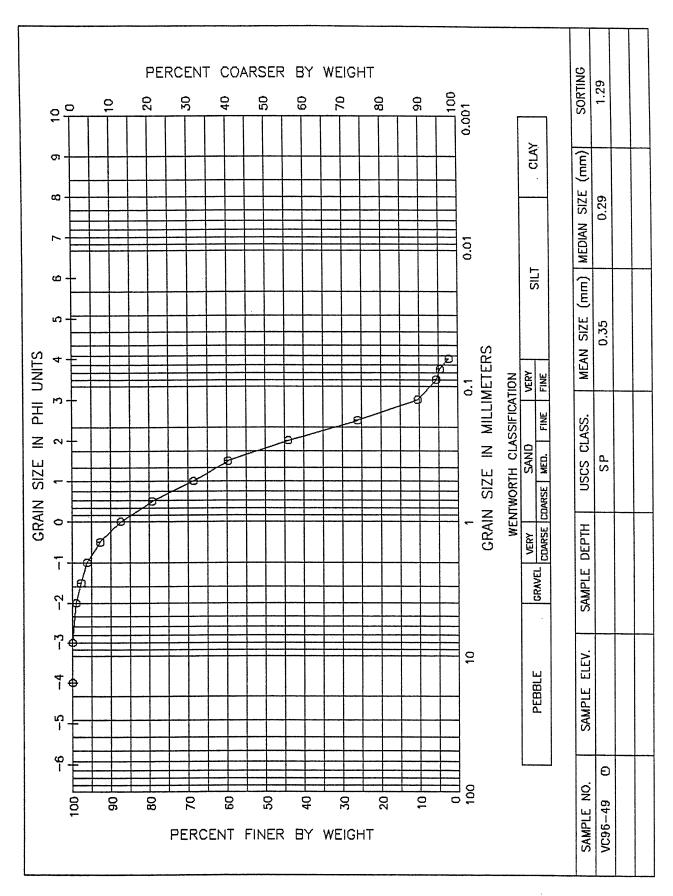
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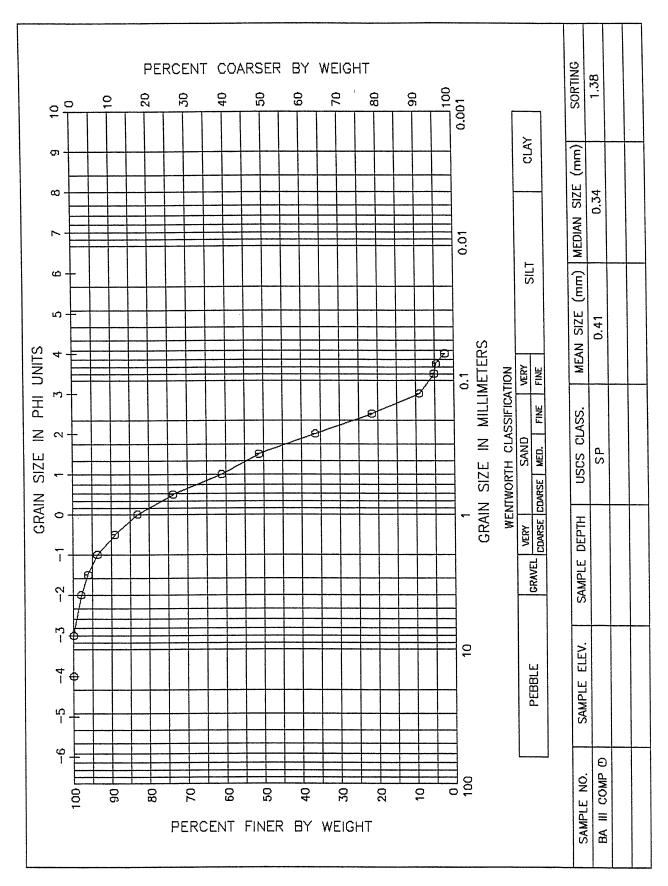
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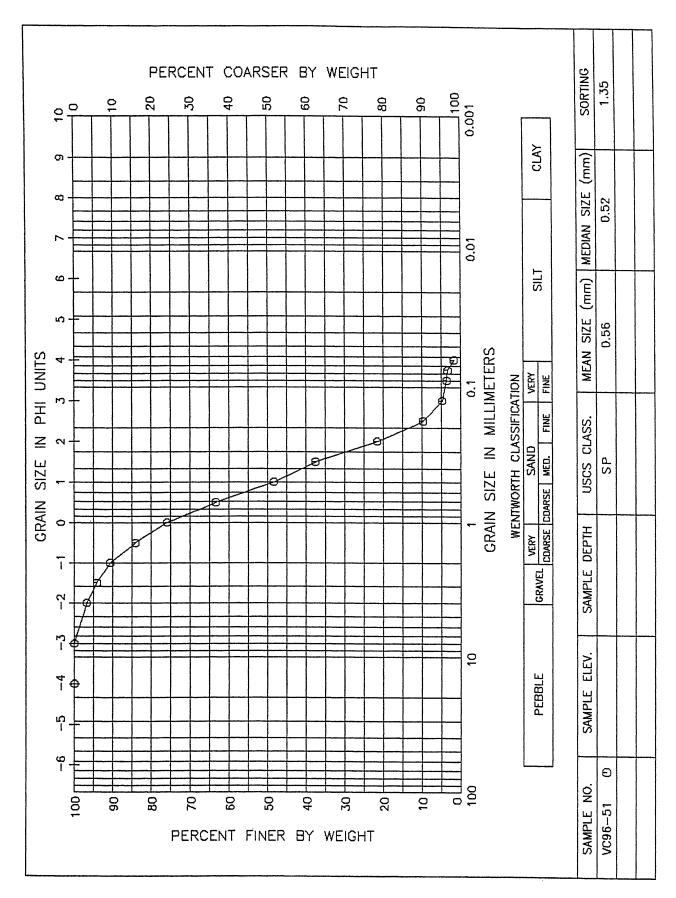
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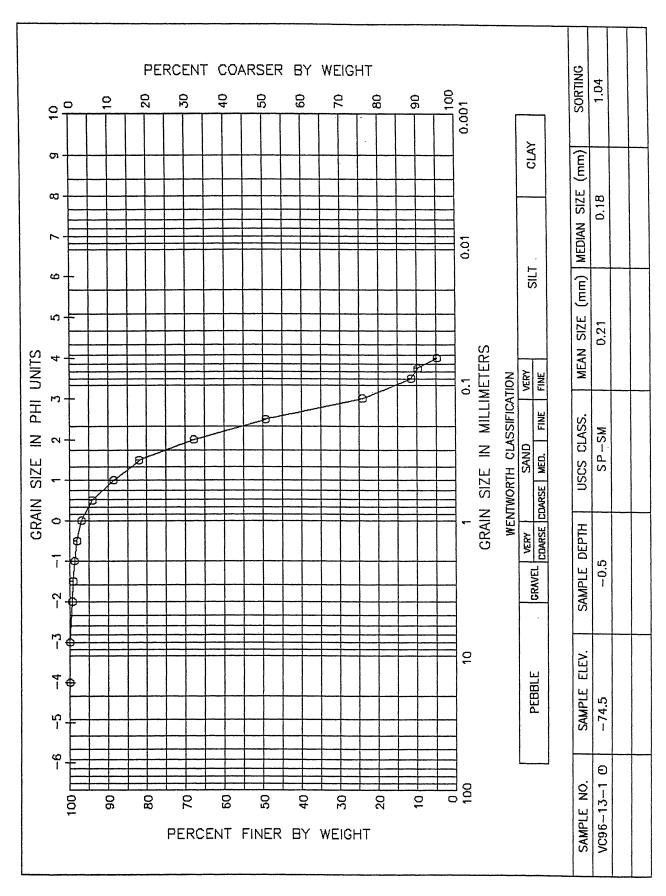


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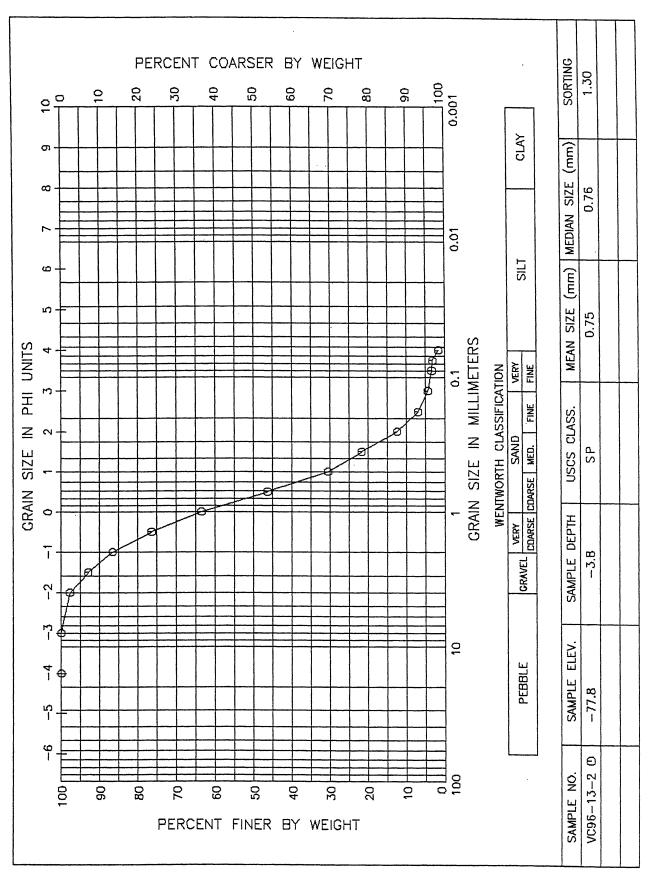


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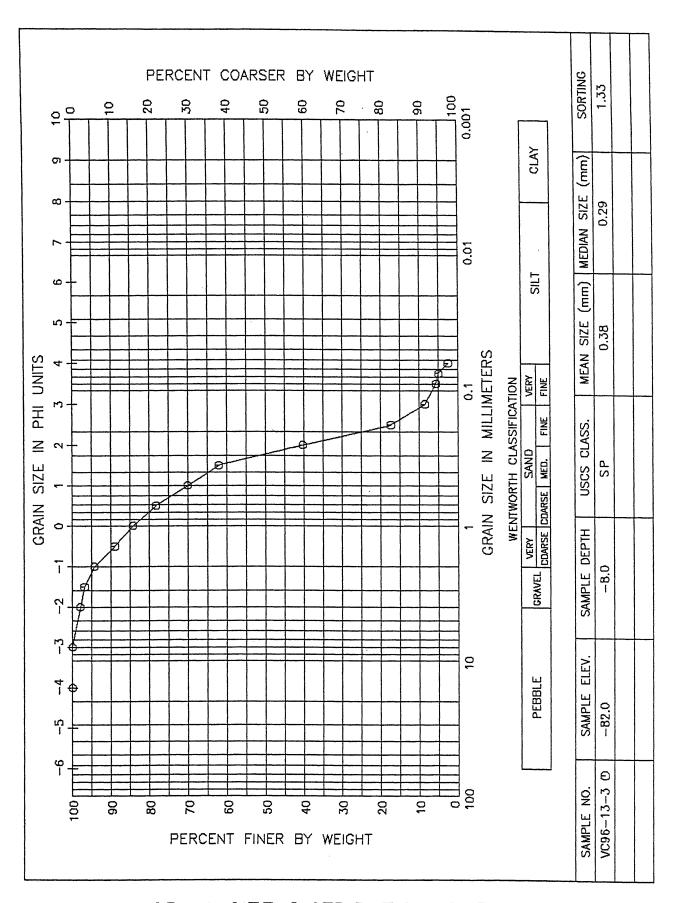
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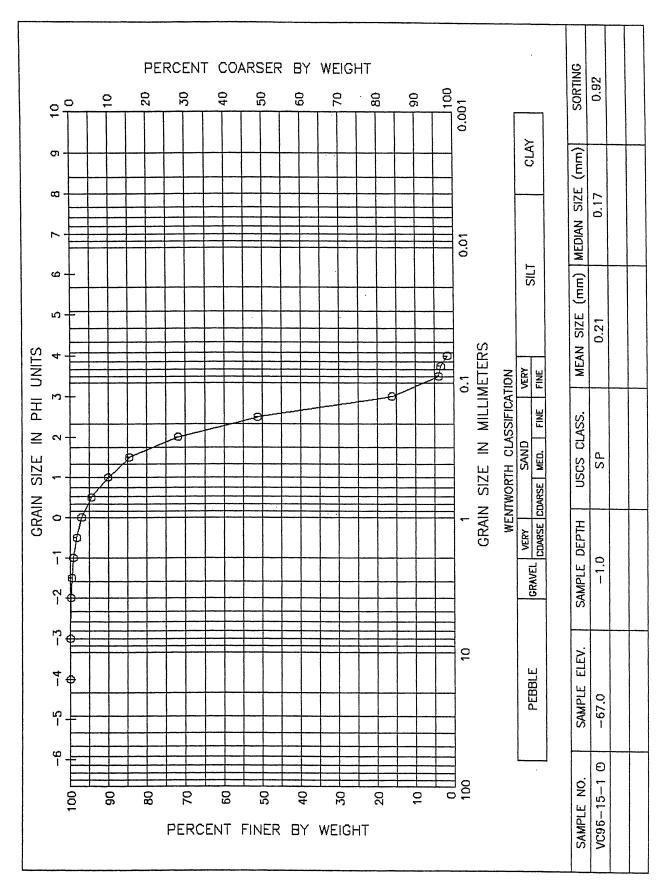
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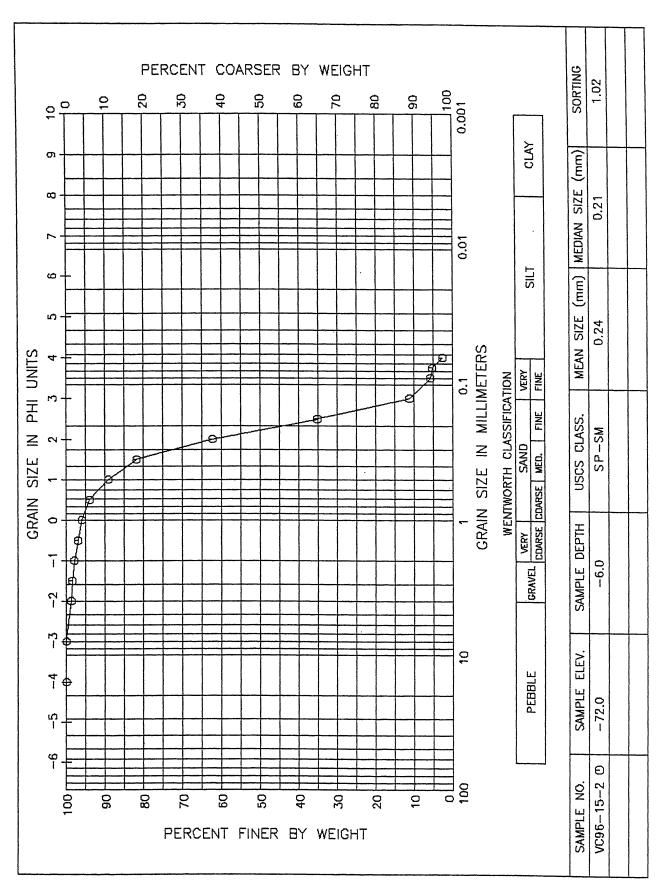
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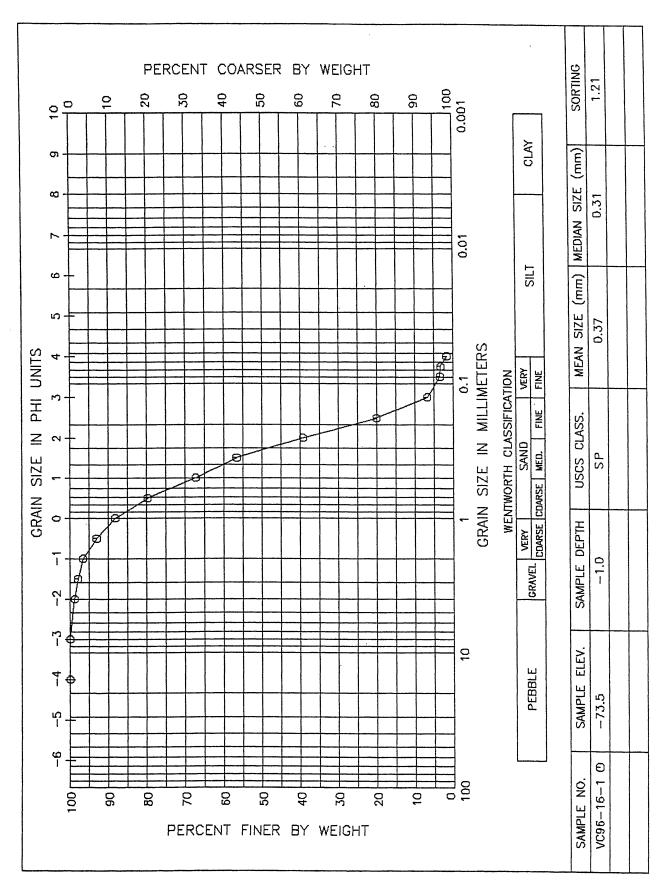
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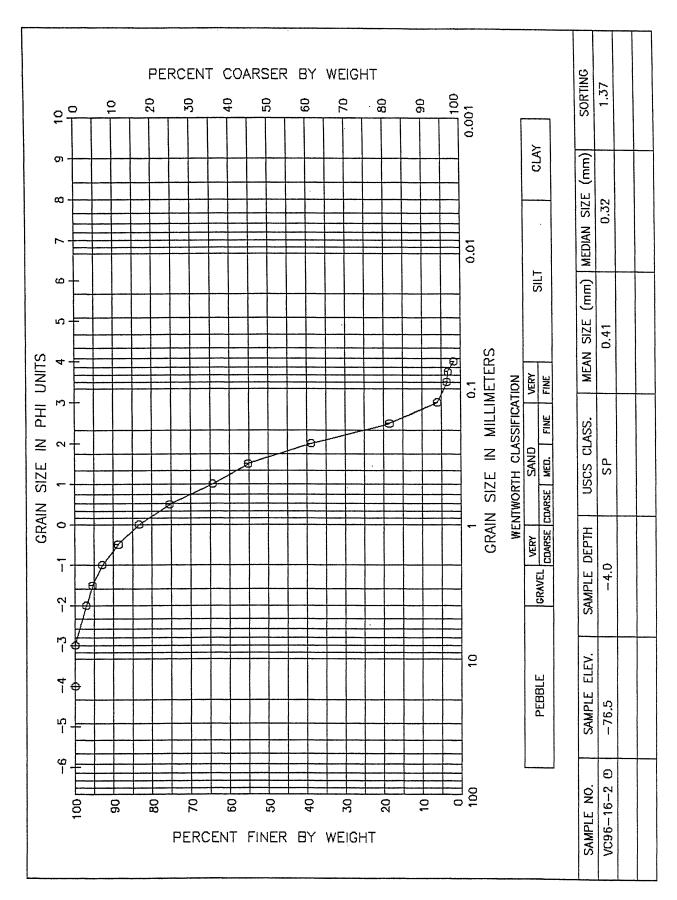
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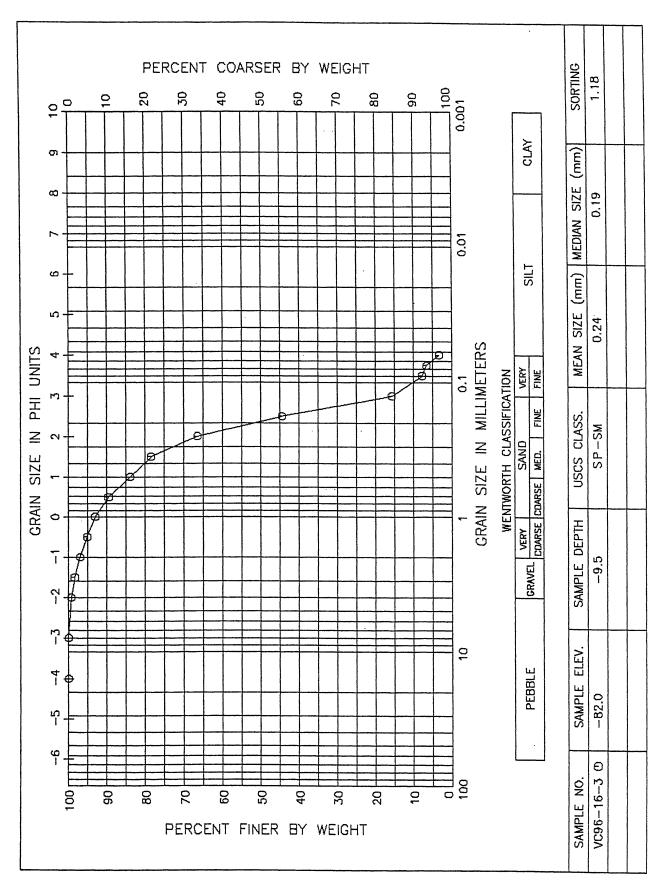
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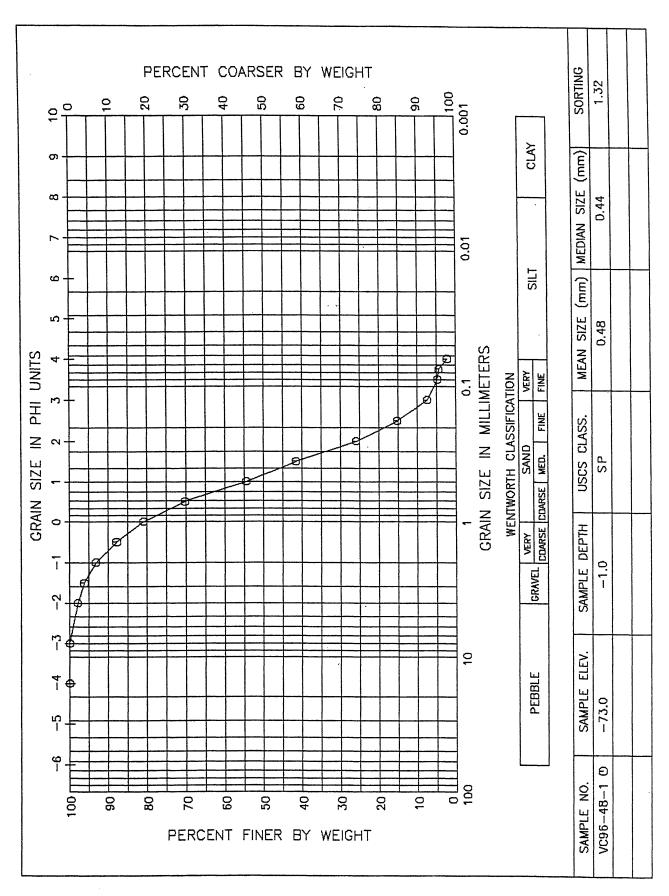
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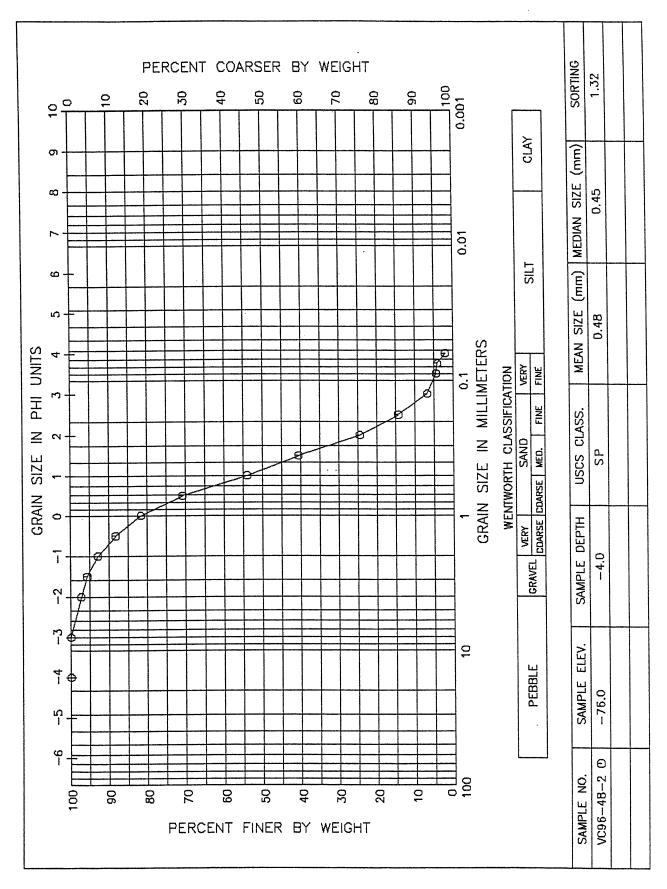
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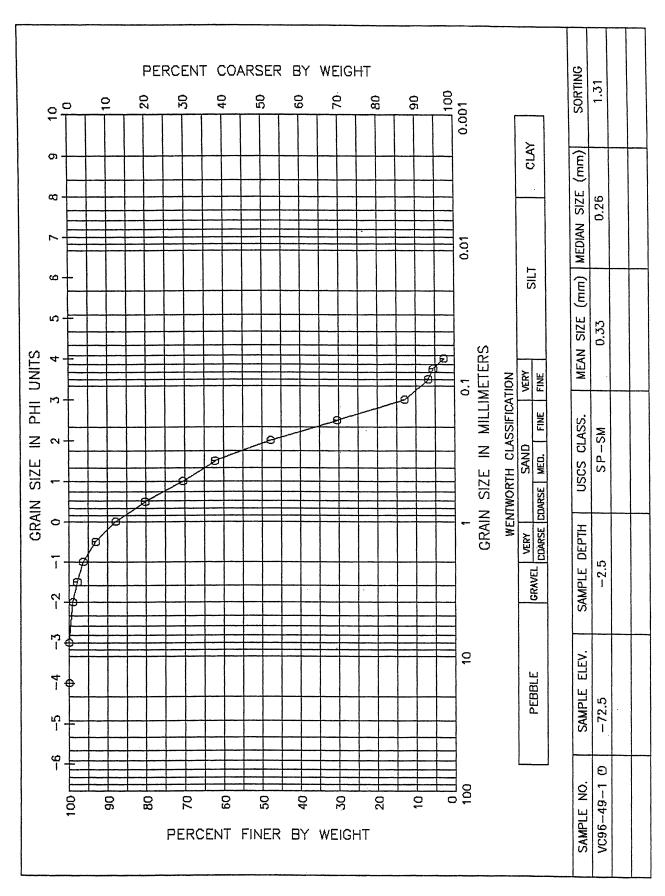
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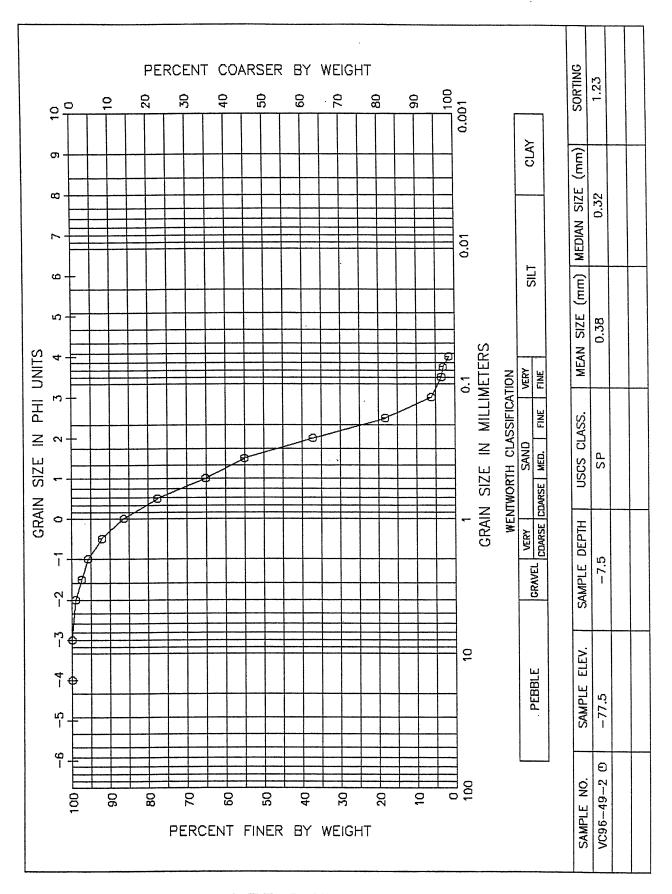
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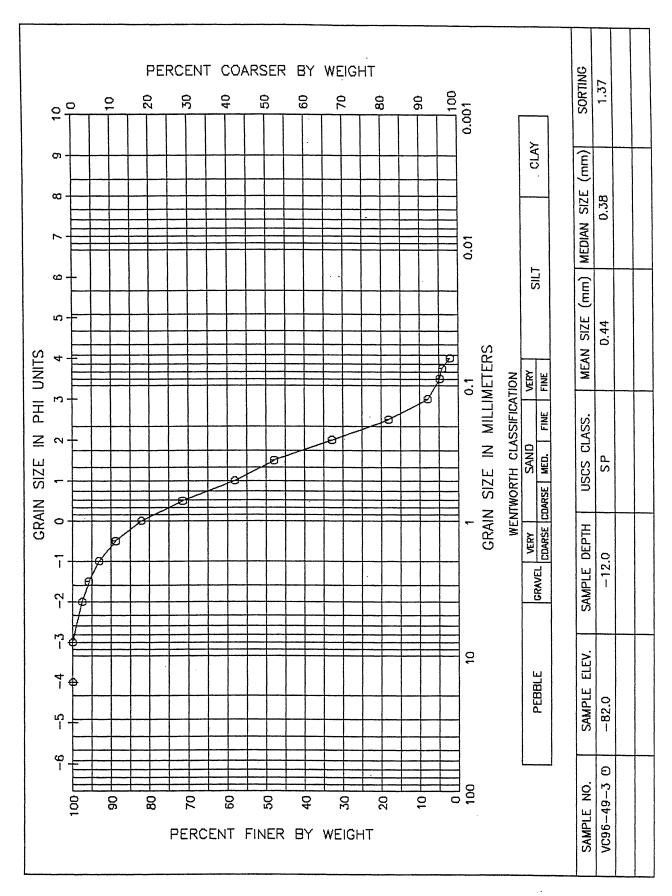
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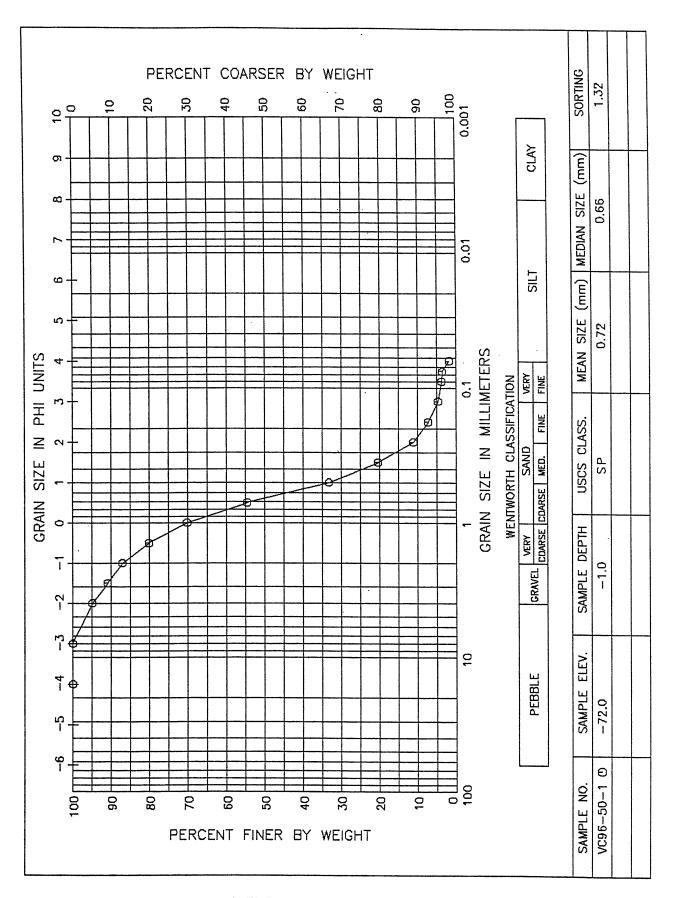
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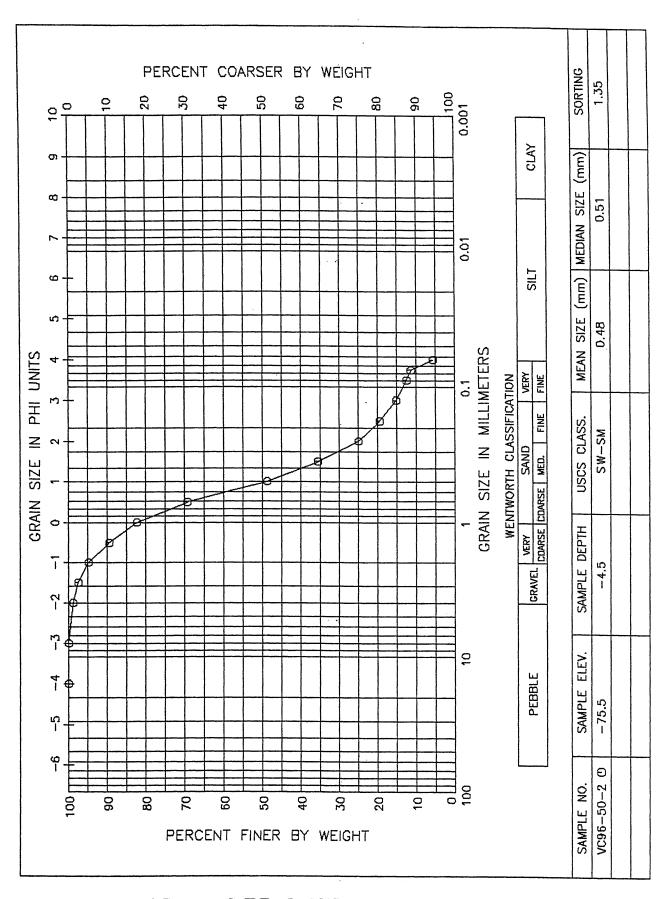
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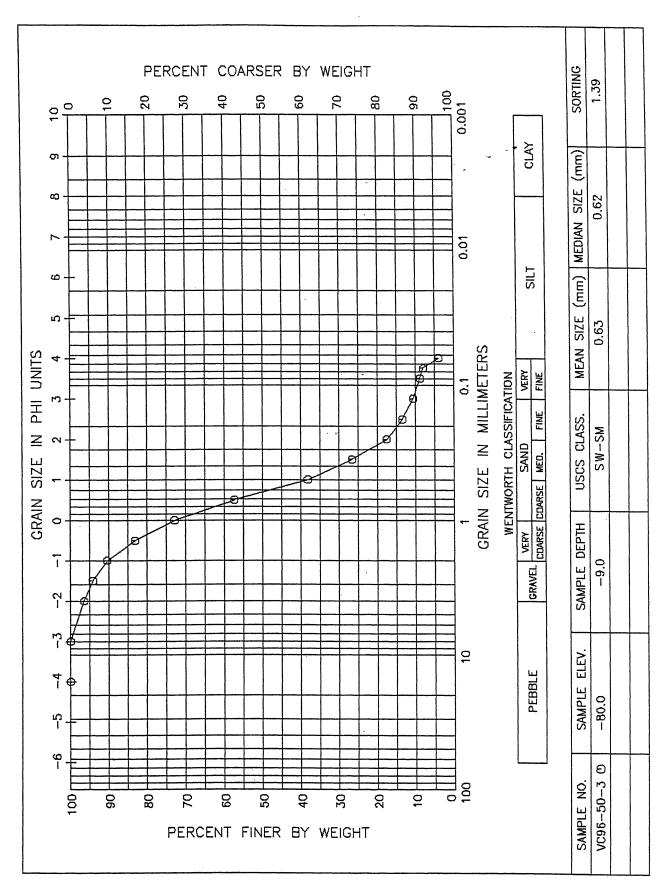
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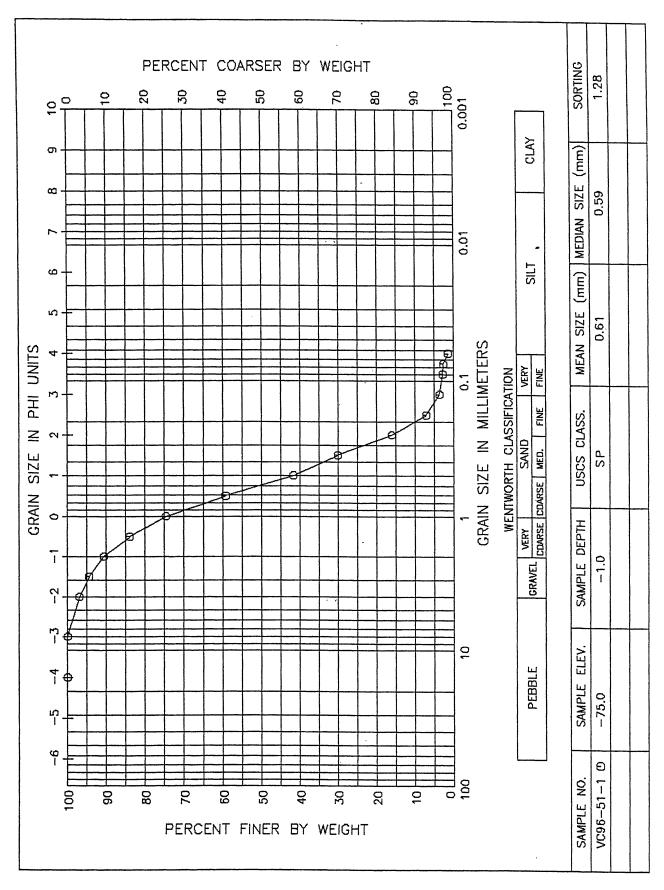
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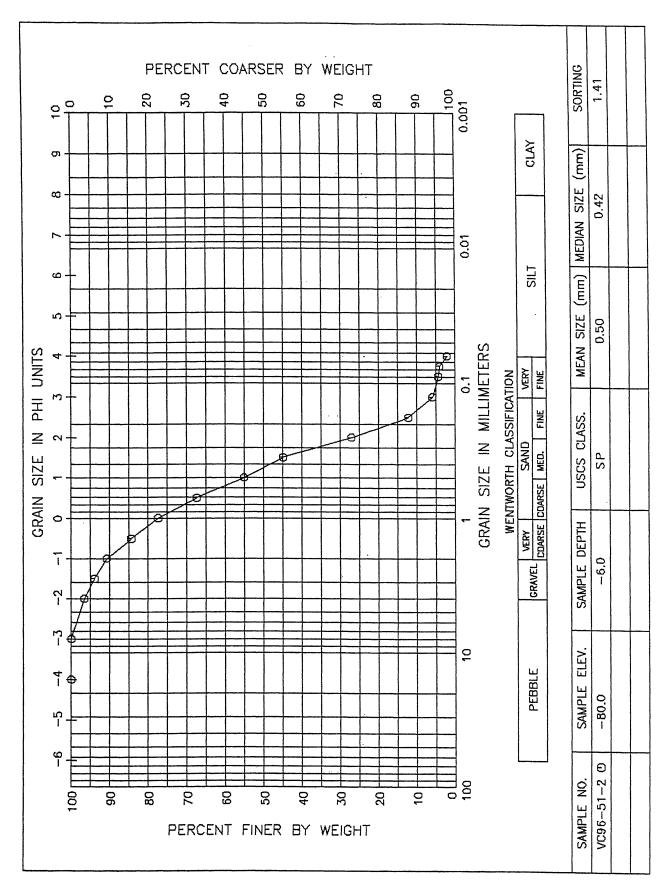
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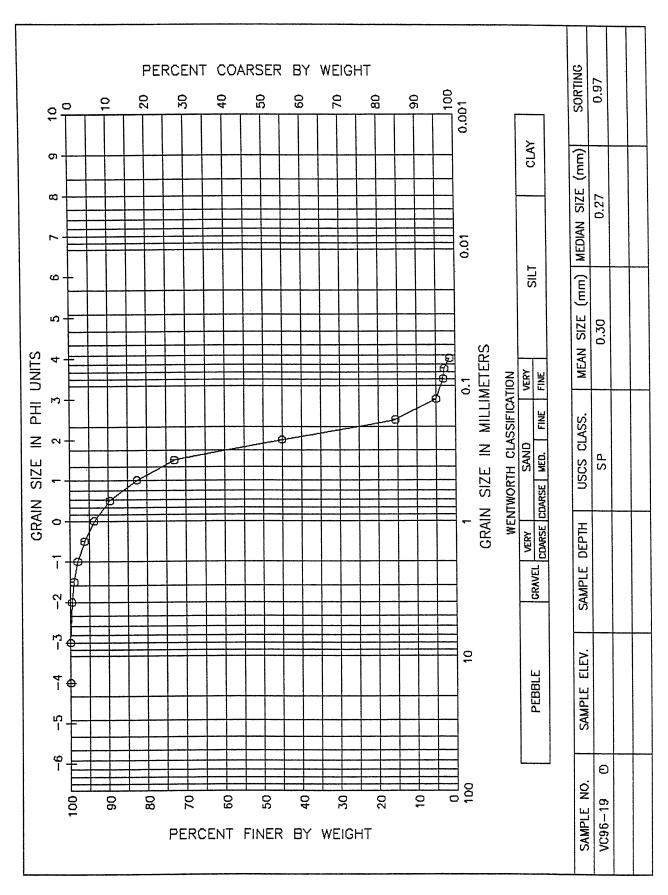
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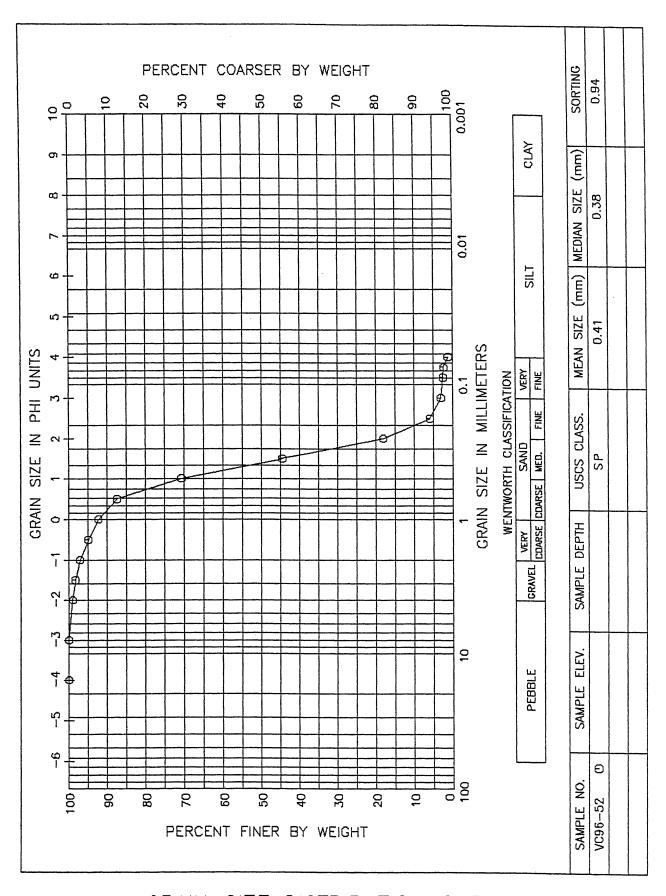
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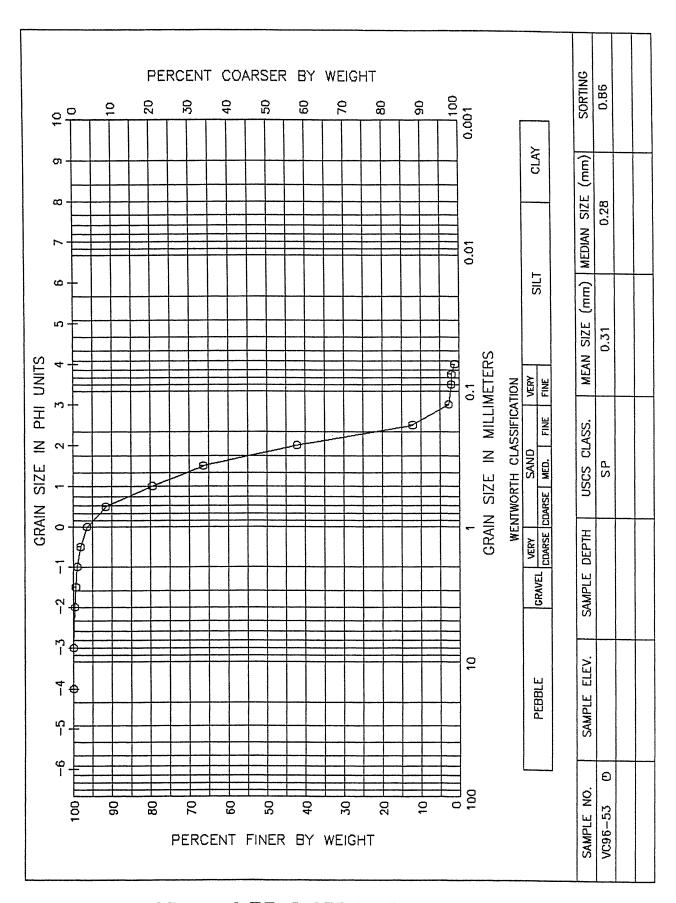
## EACH CORE DISTRIBUTION CURVES



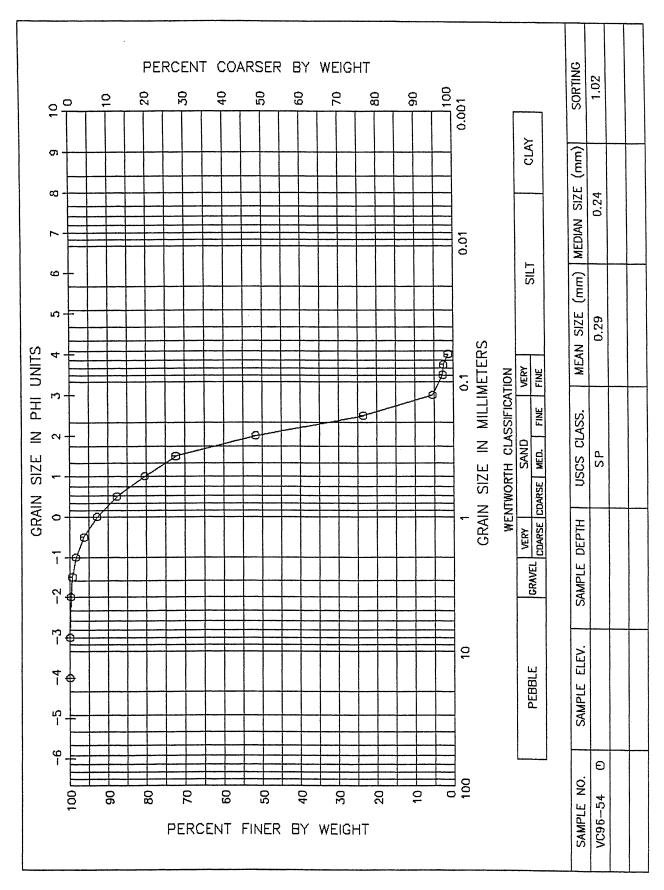
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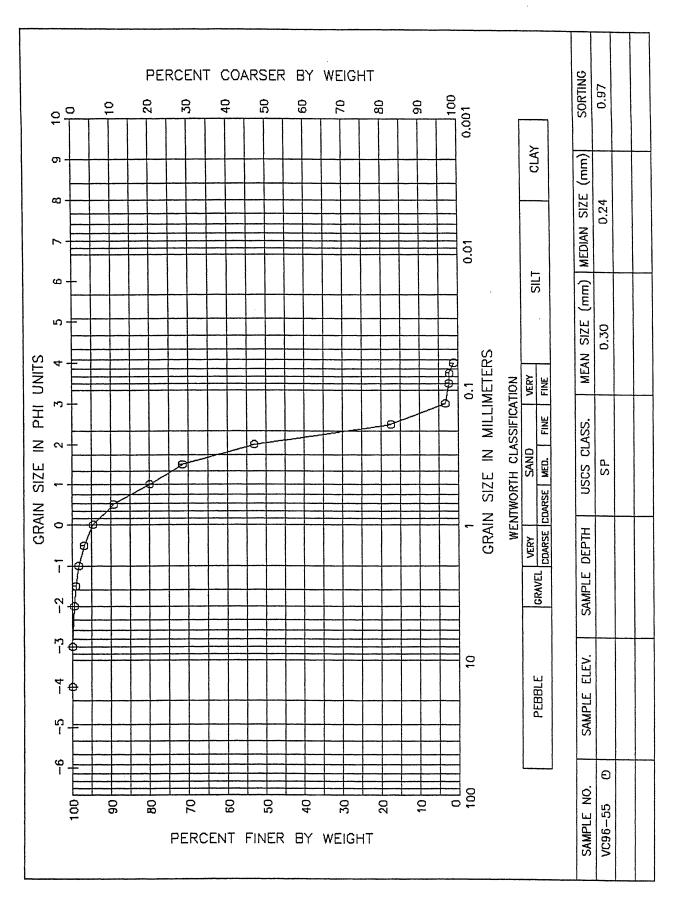
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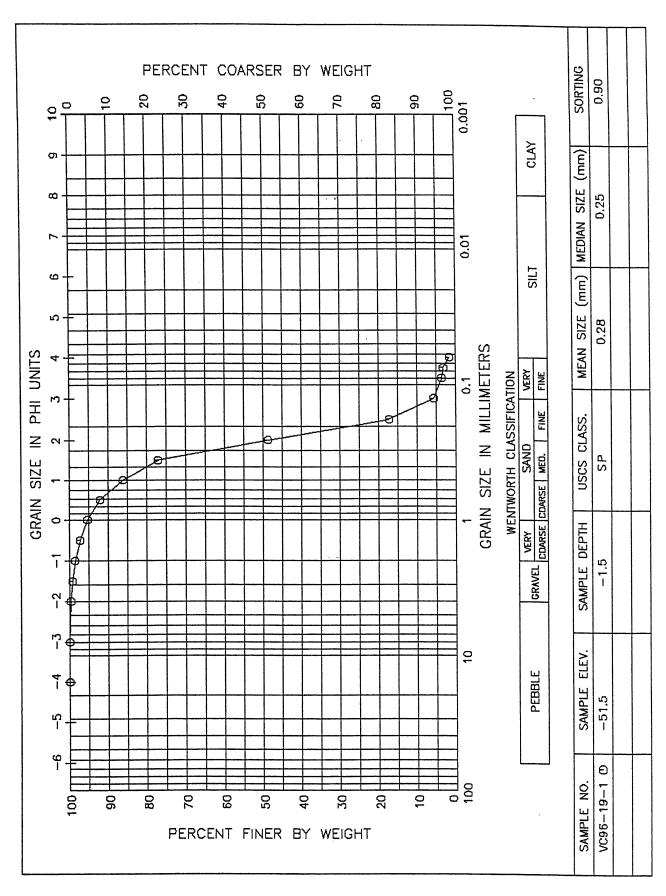


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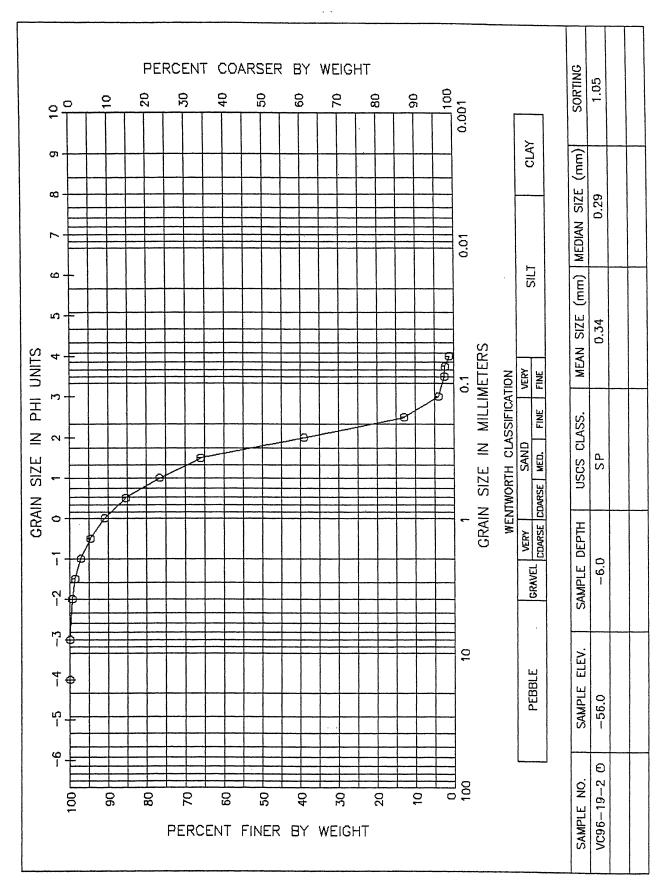


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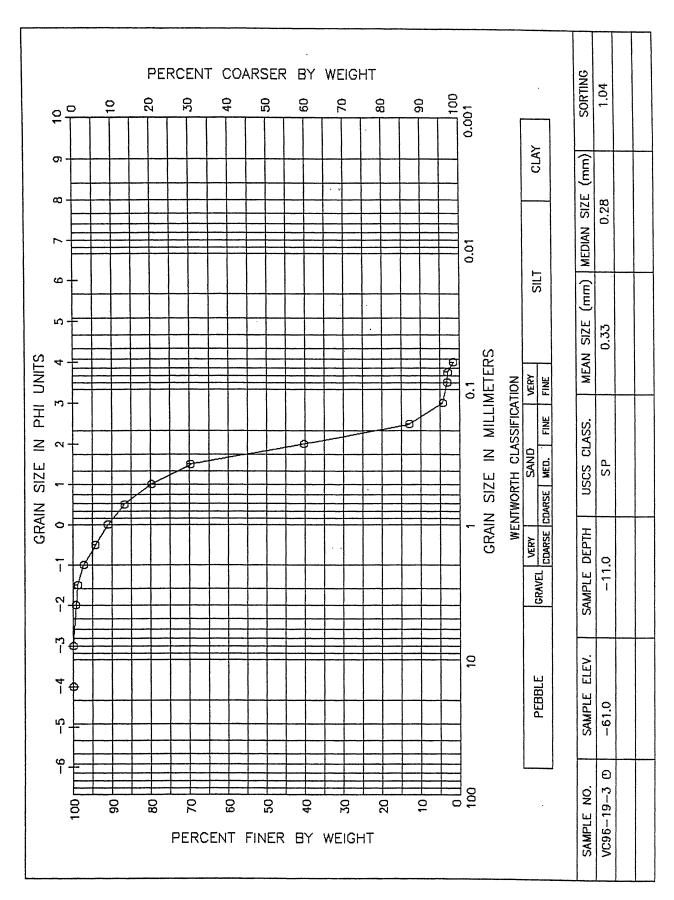
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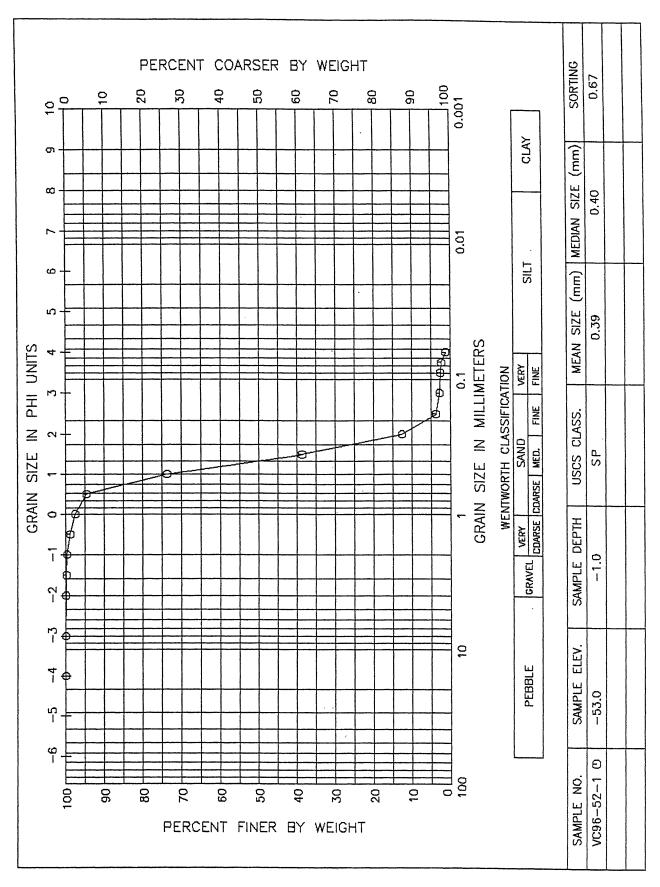
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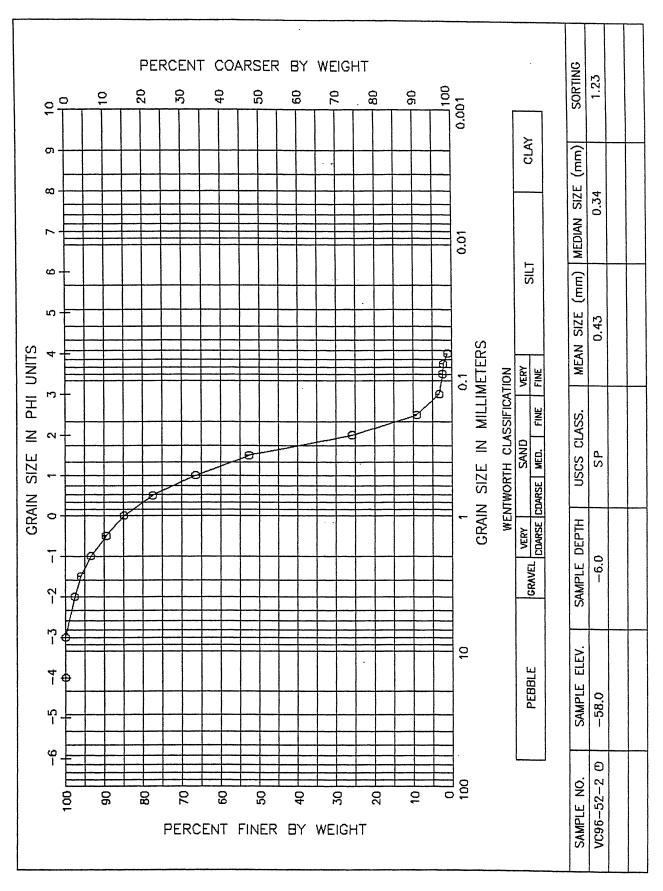
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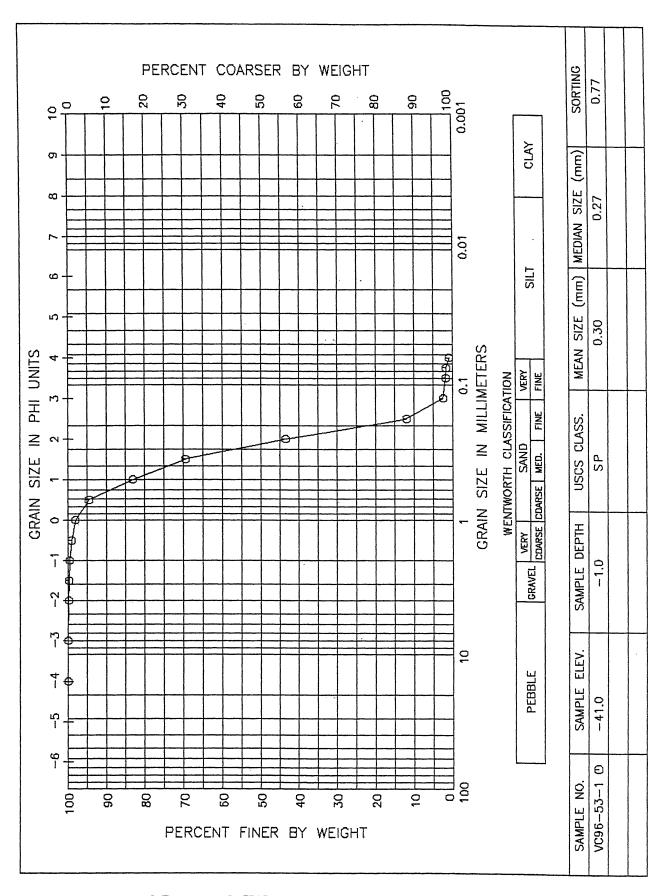
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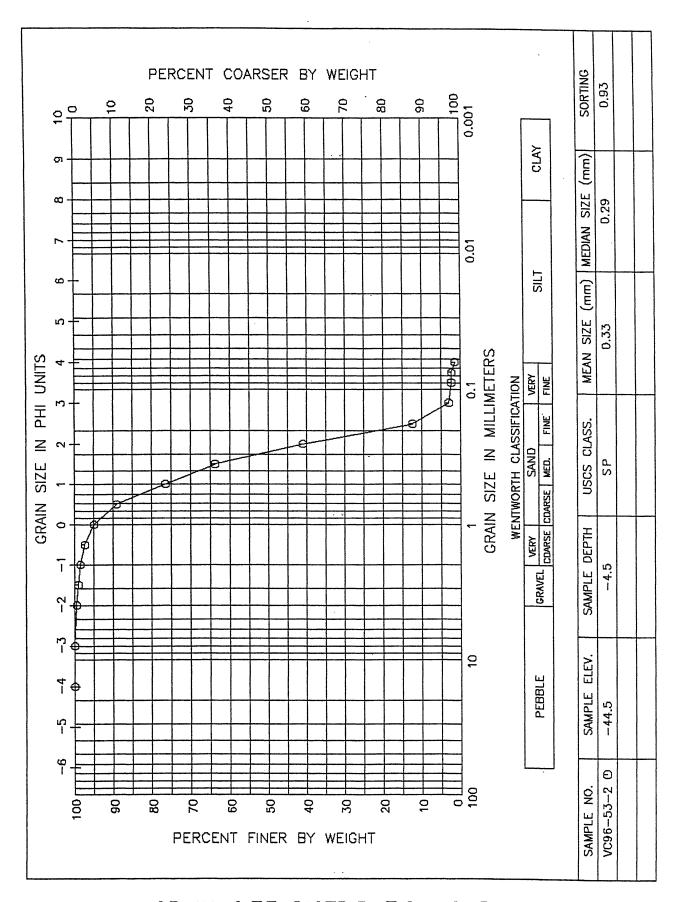
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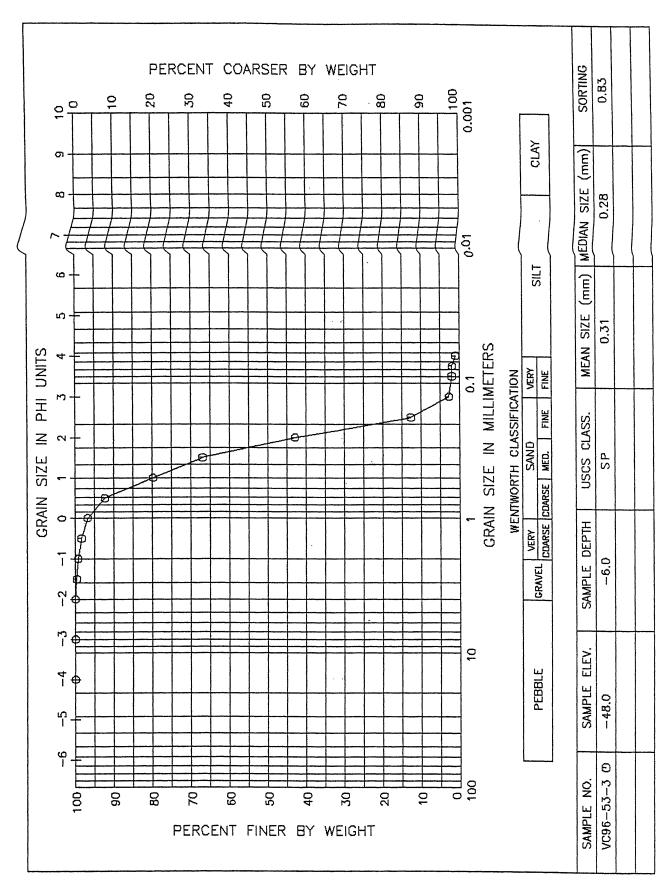
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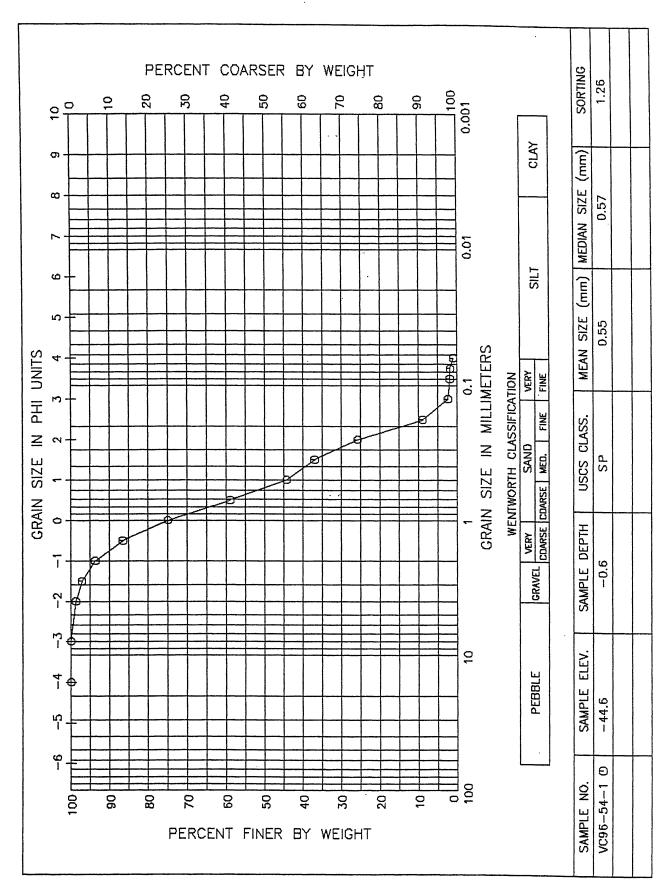
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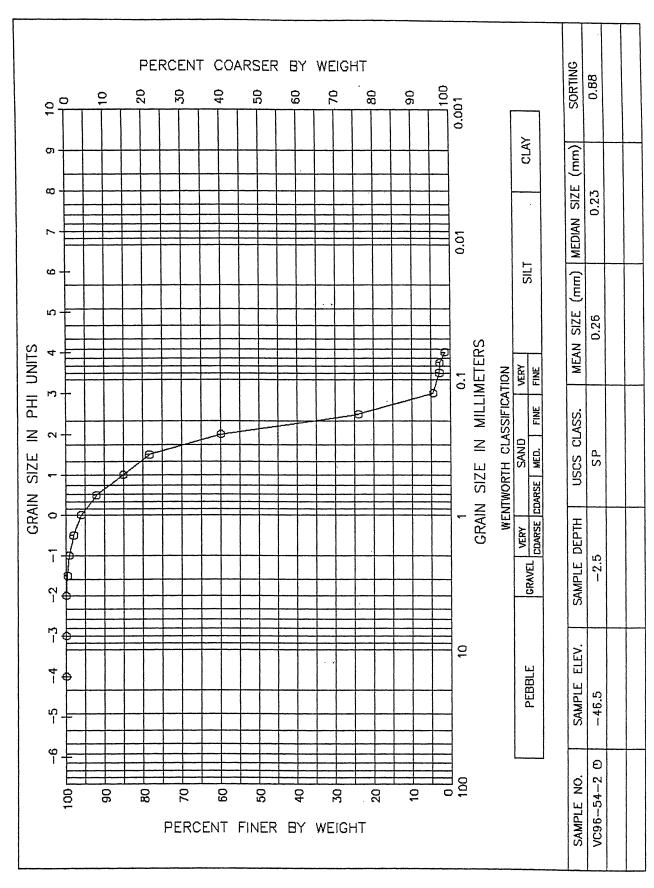
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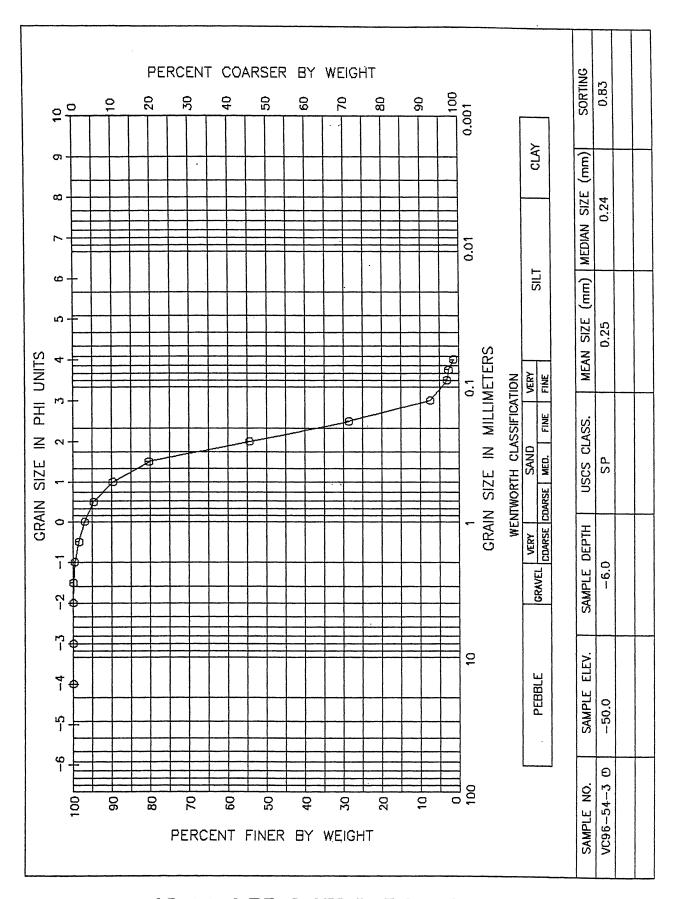
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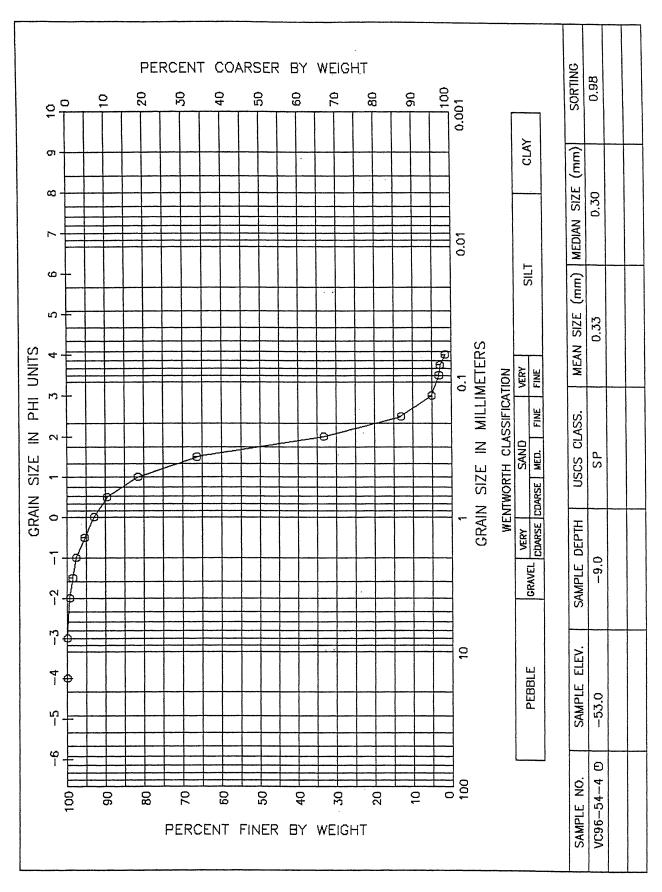
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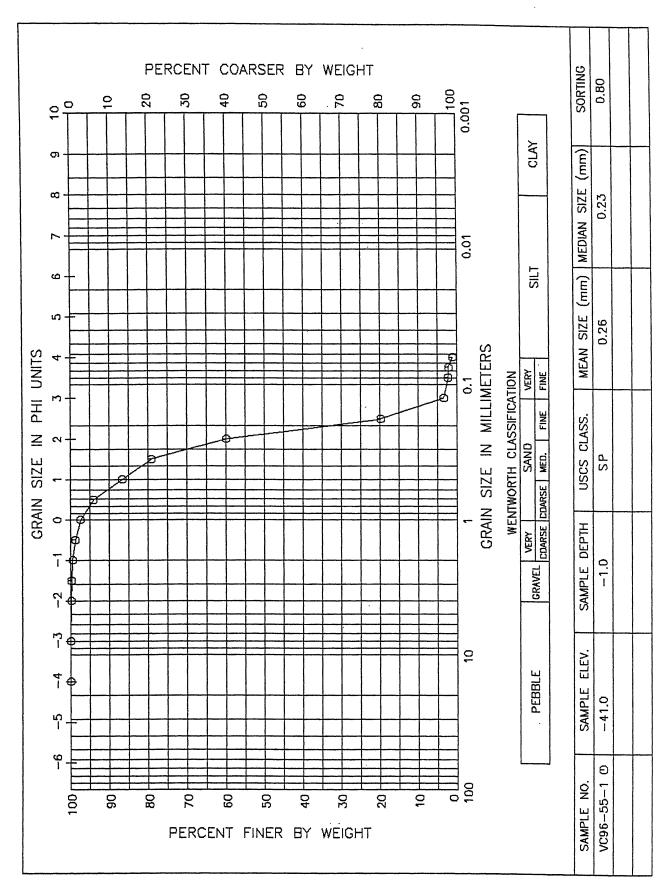
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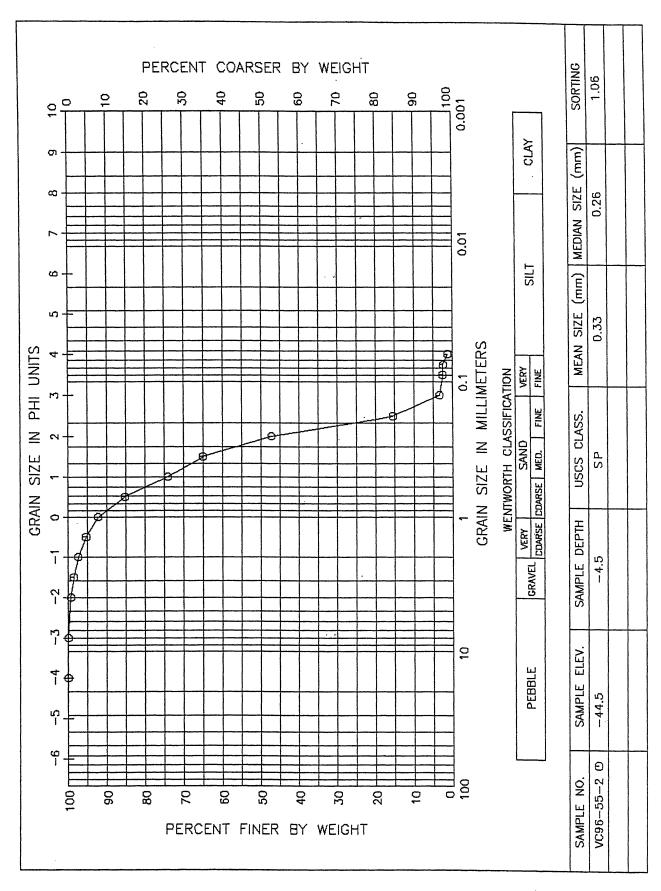
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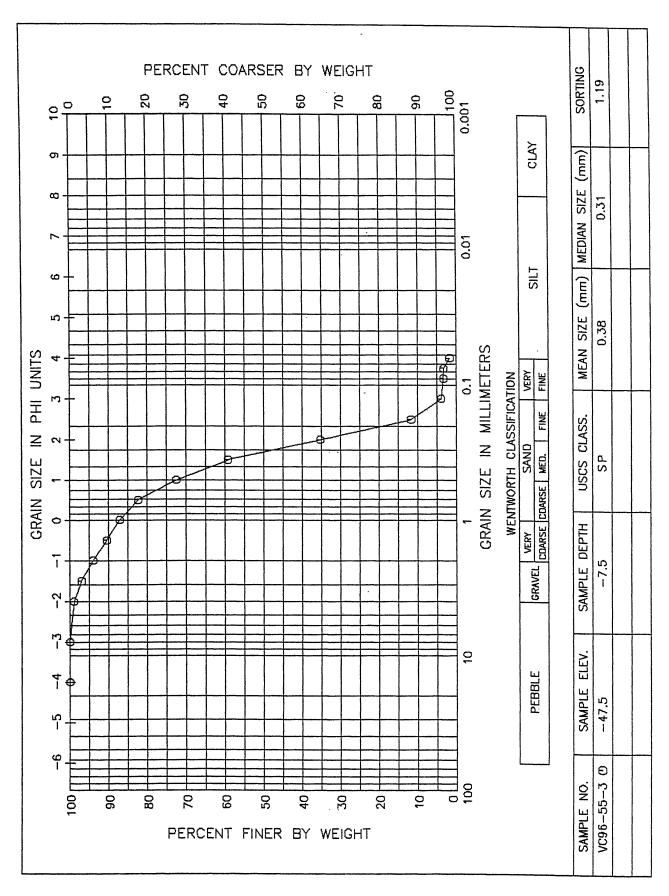
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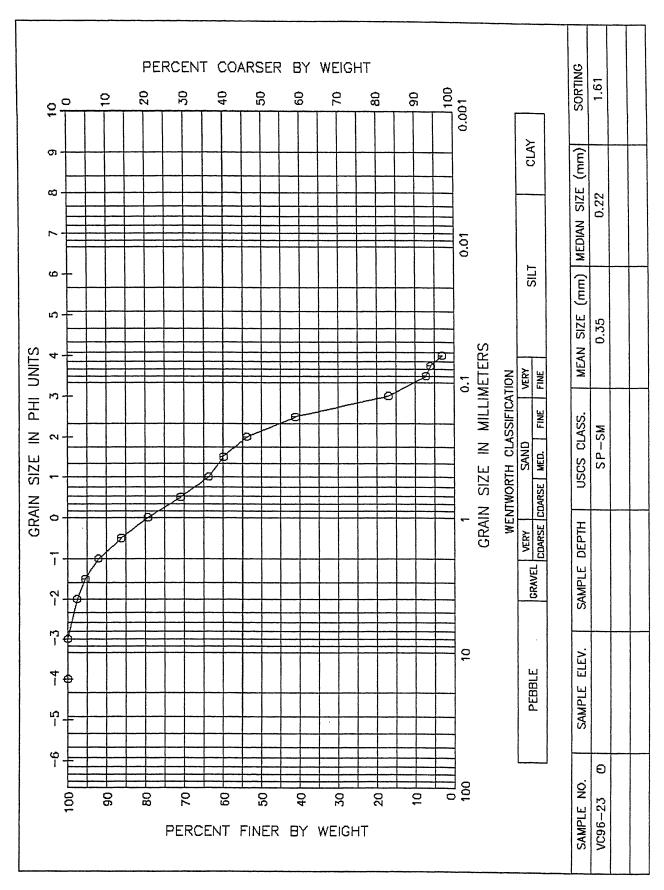
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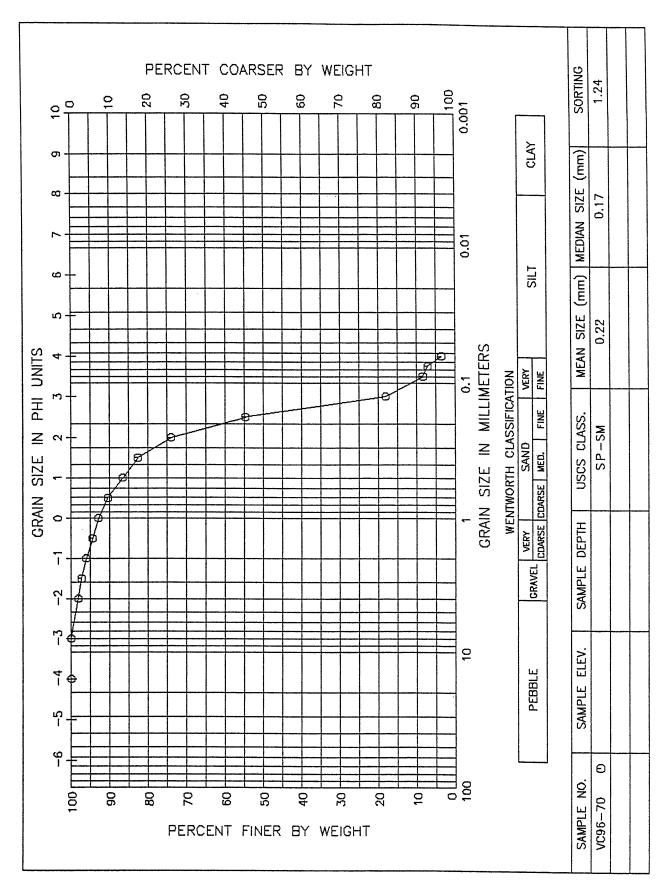
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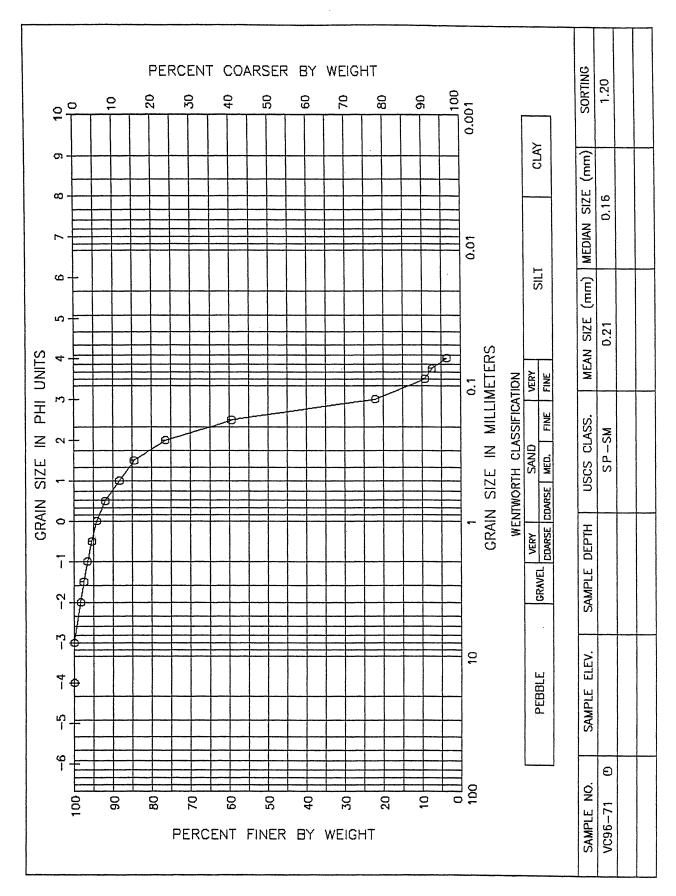
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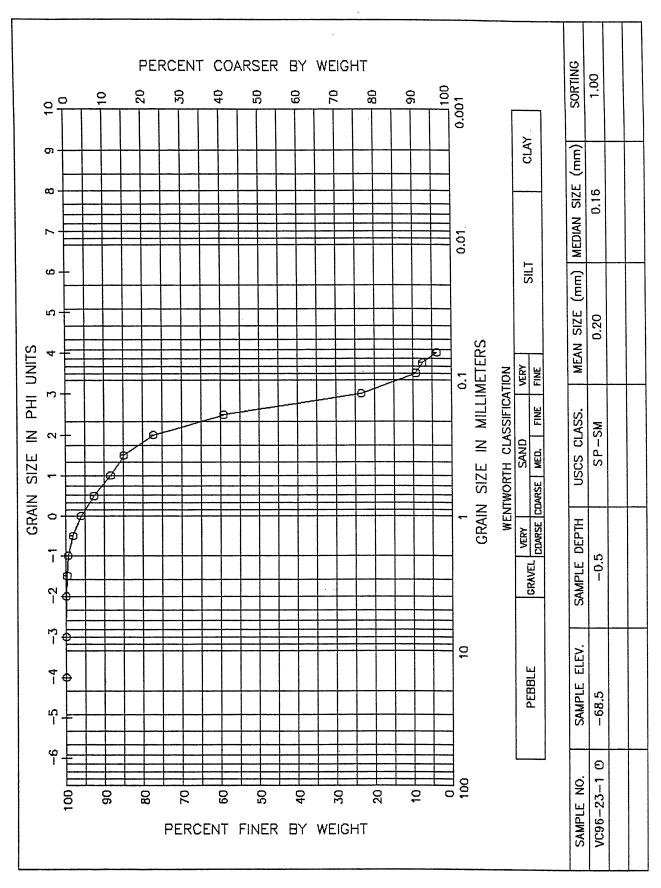


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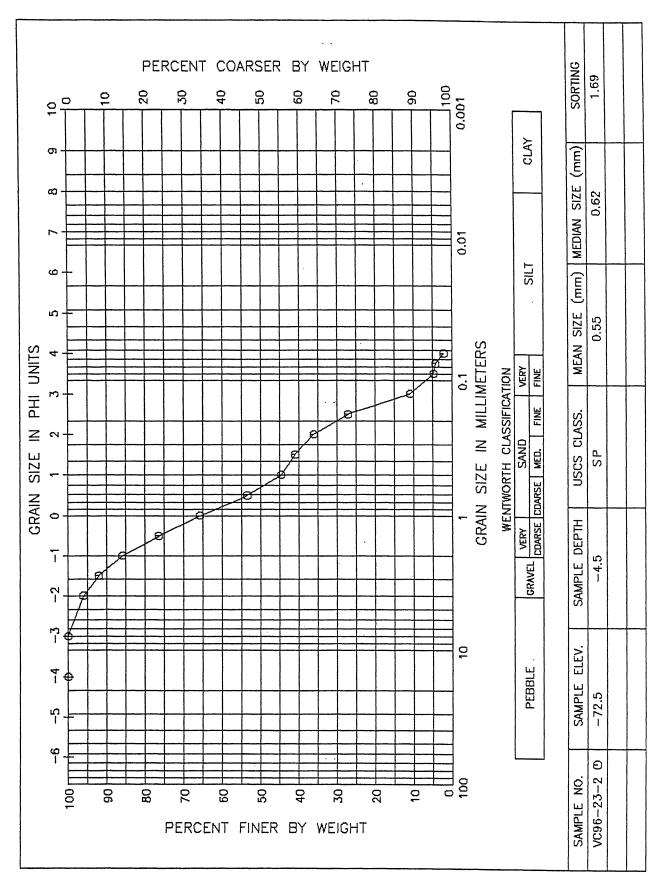


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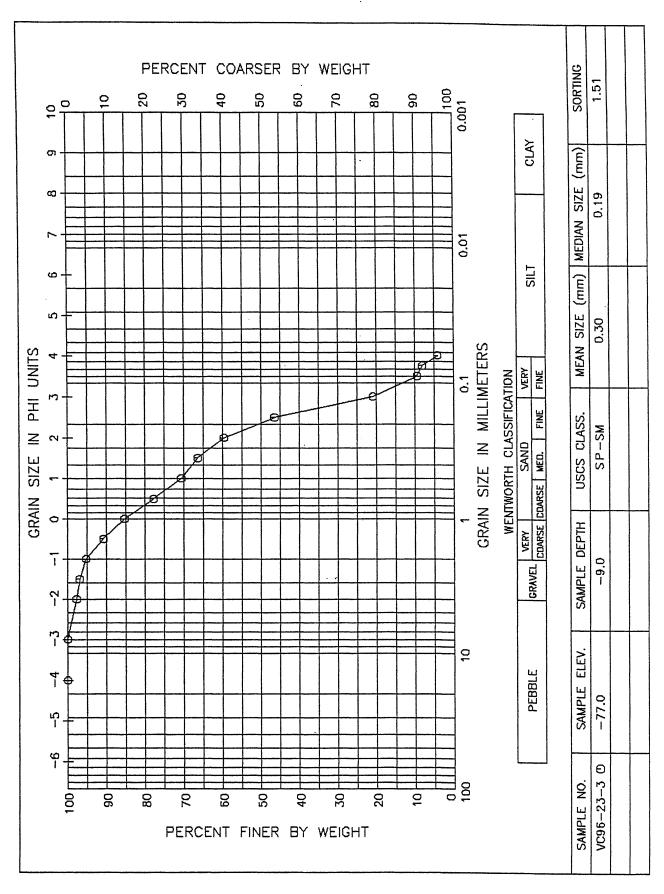
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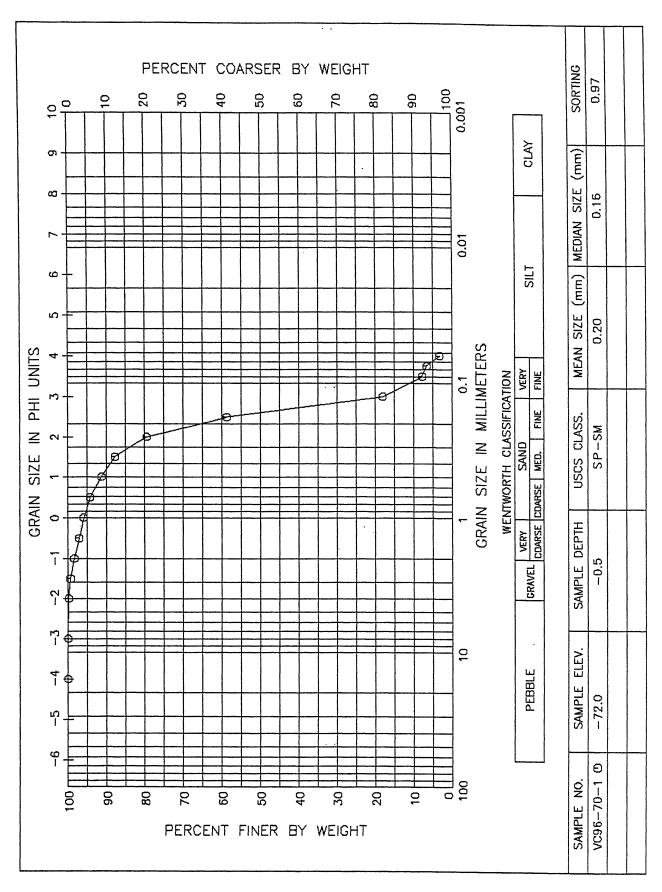
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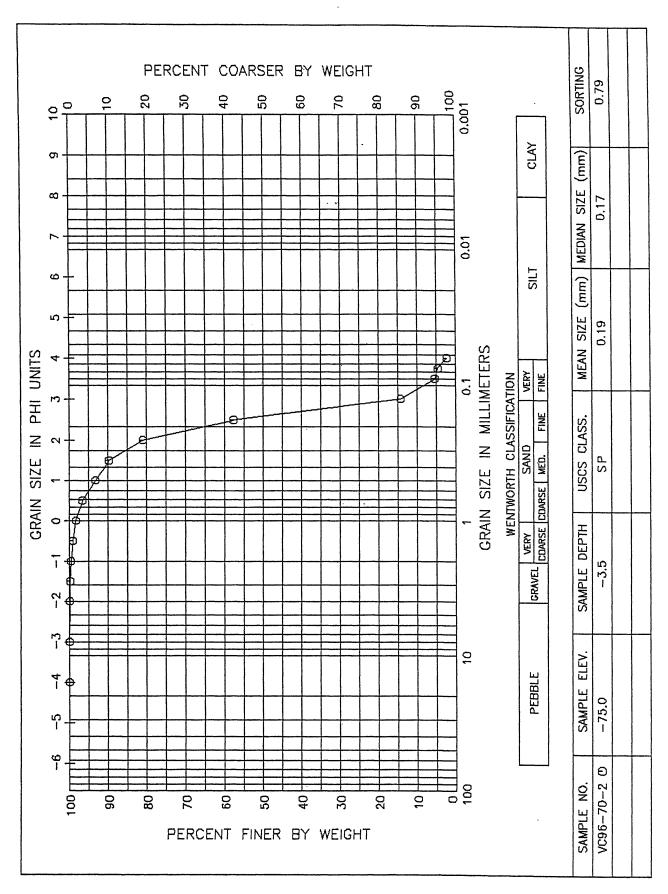
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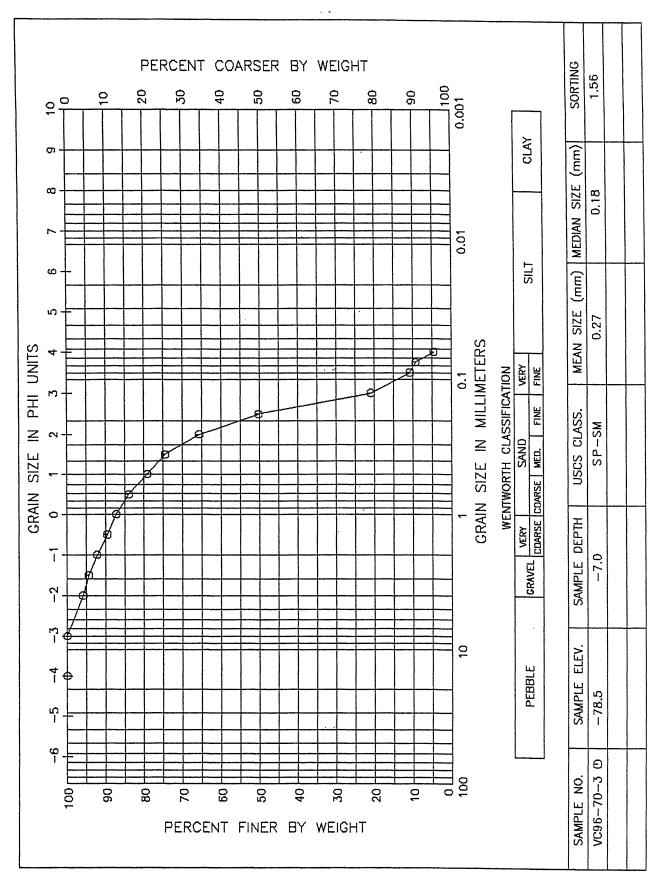
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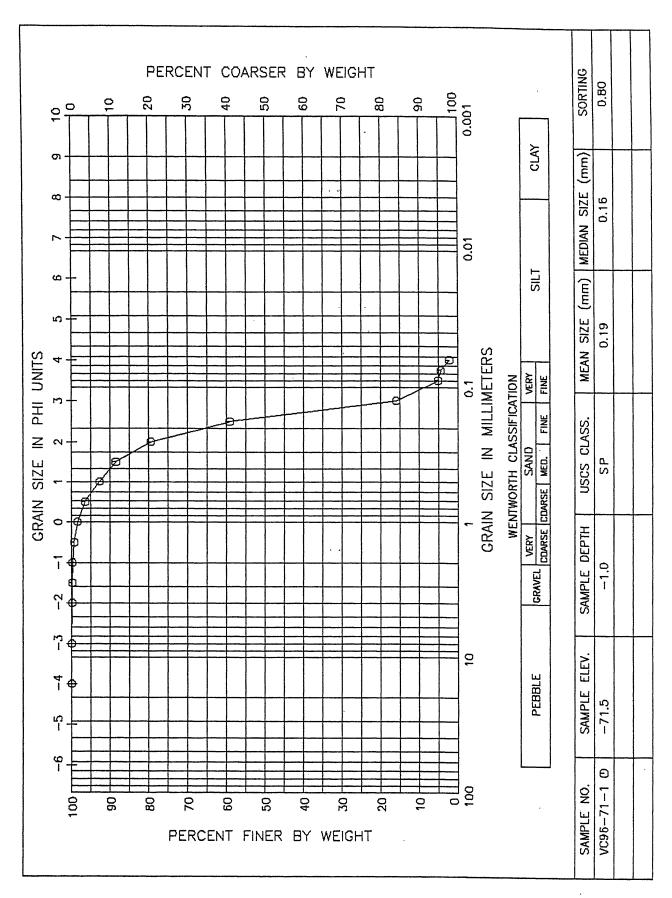


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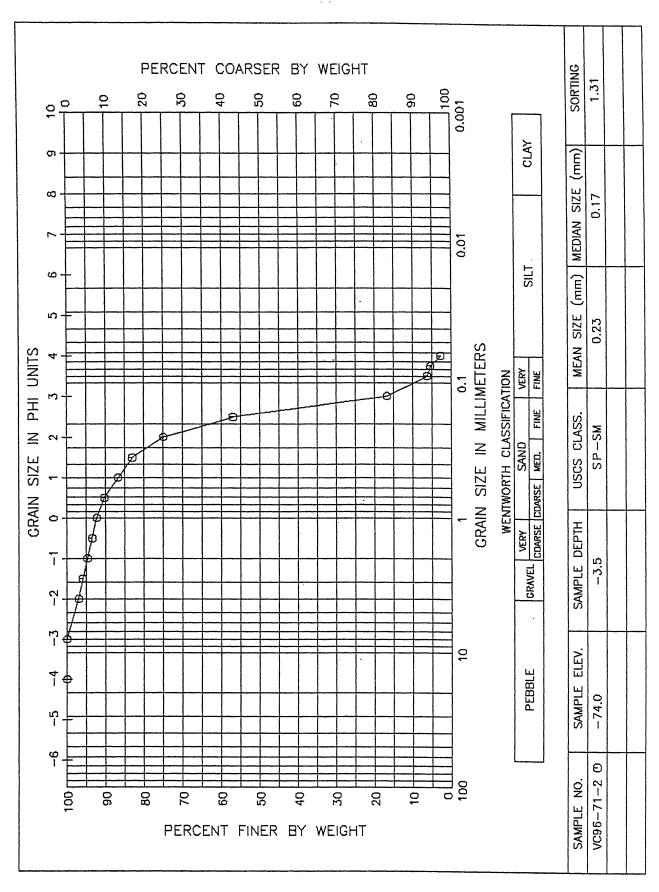


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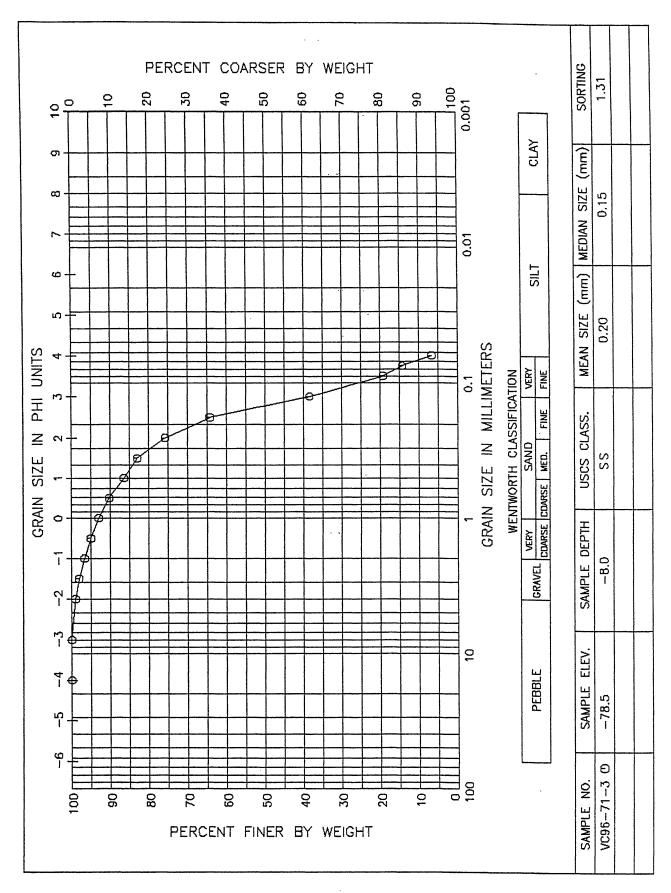
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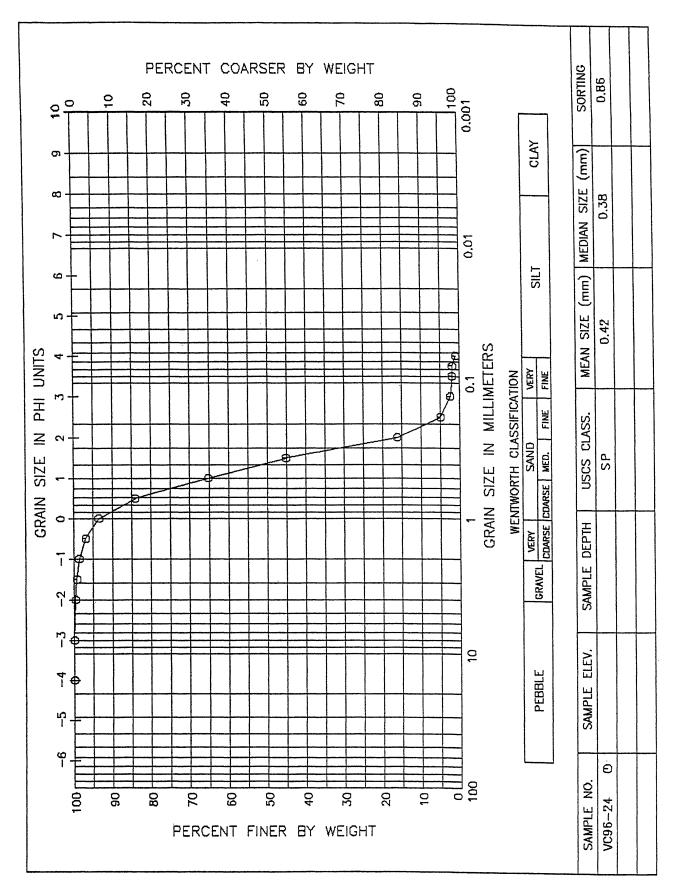
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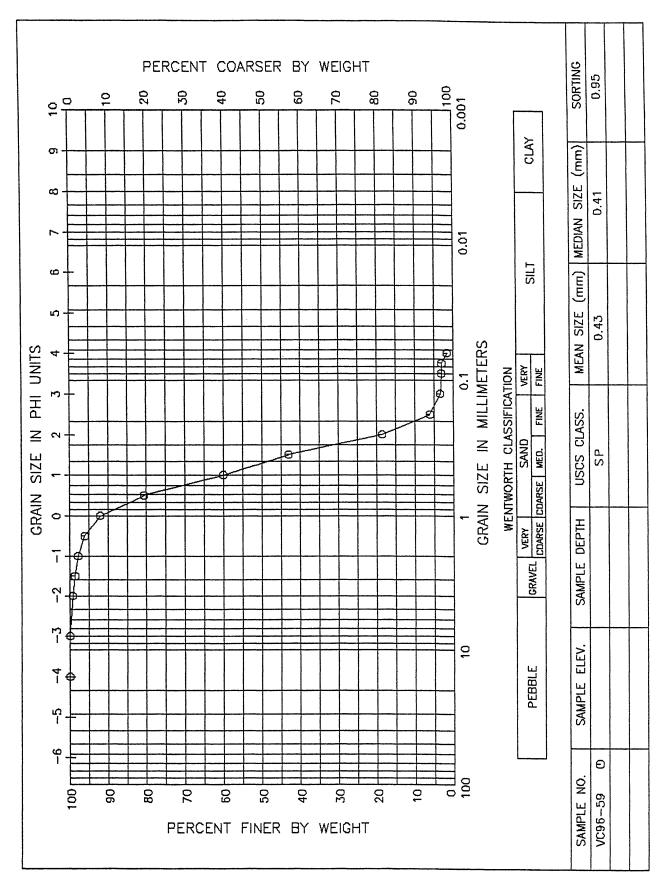
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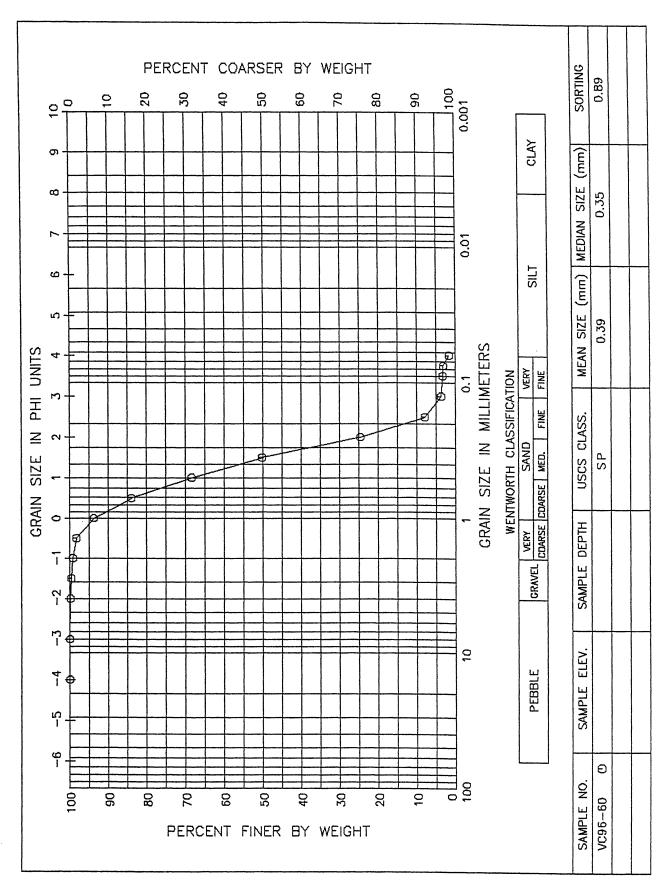
## EACH CORE DISTRIBUTION CURVES



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA VI 10/96

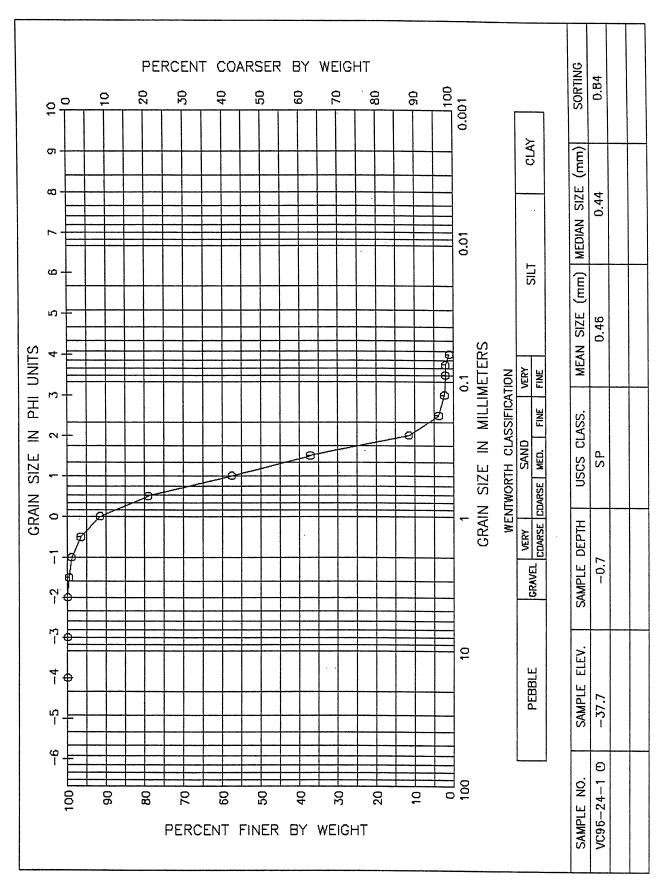


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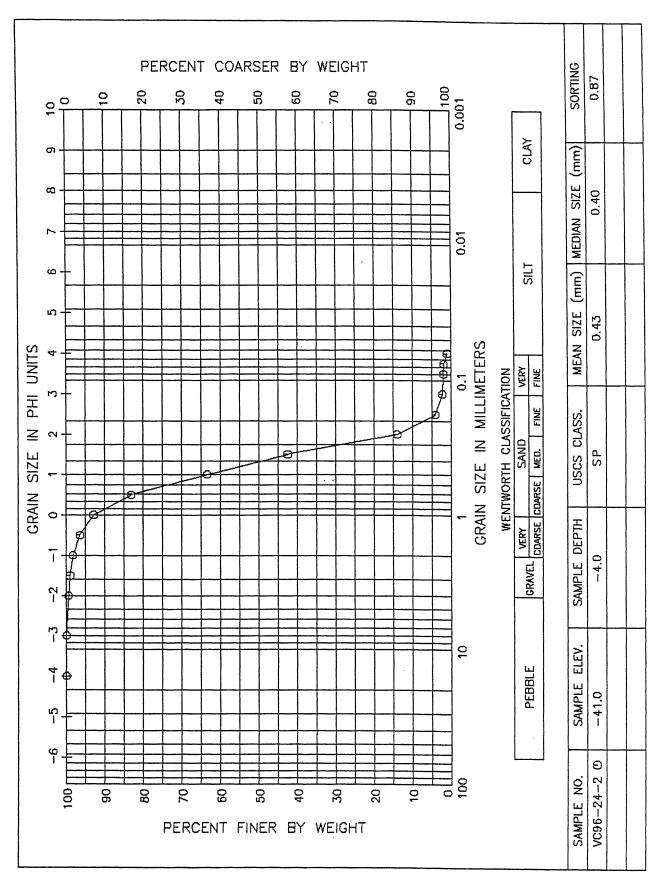


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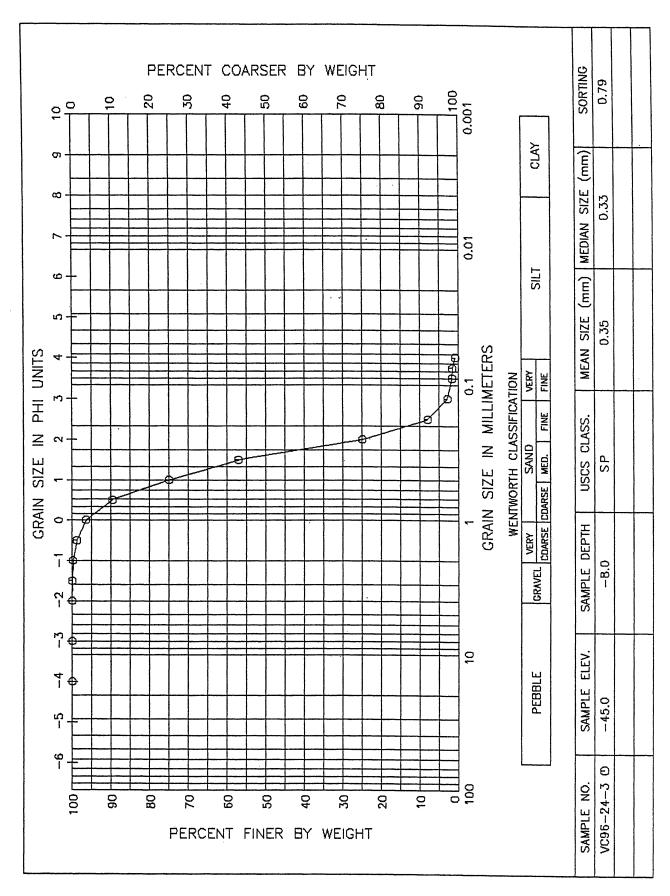
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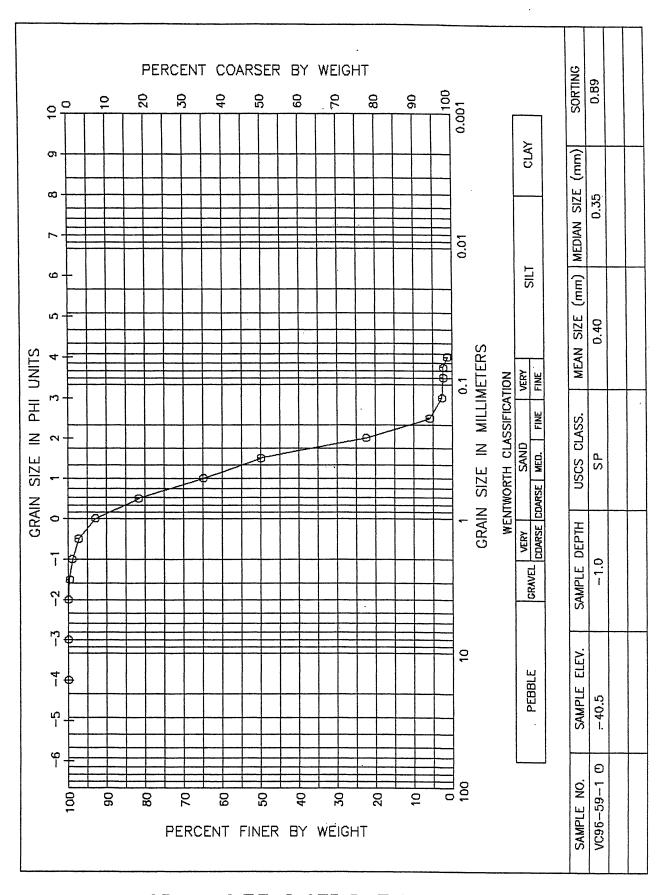
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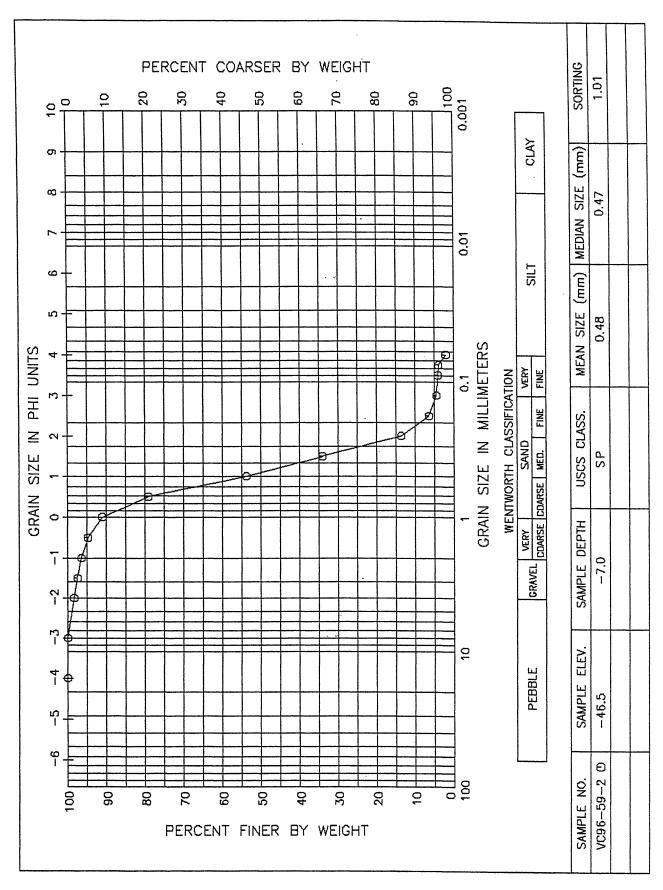
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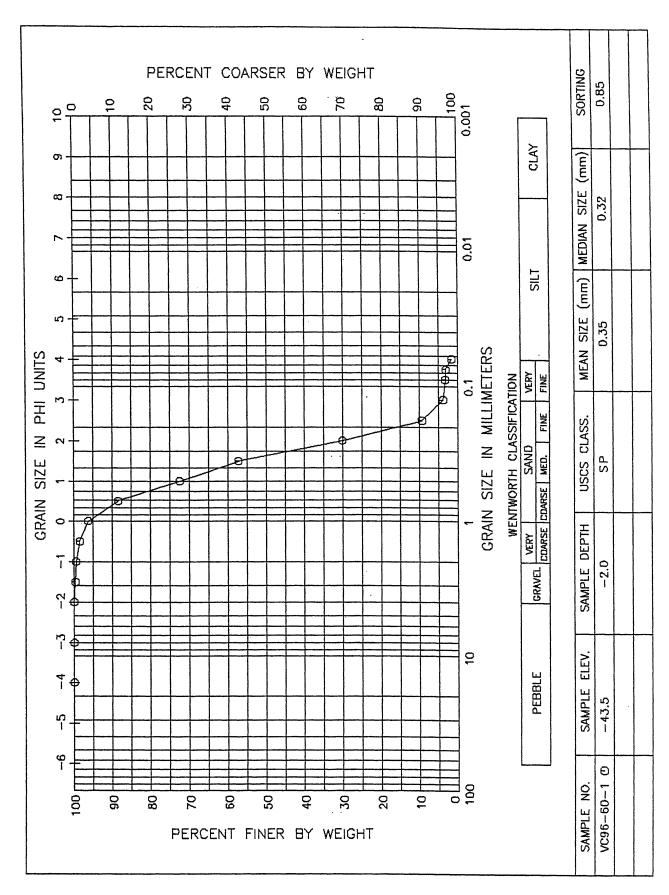
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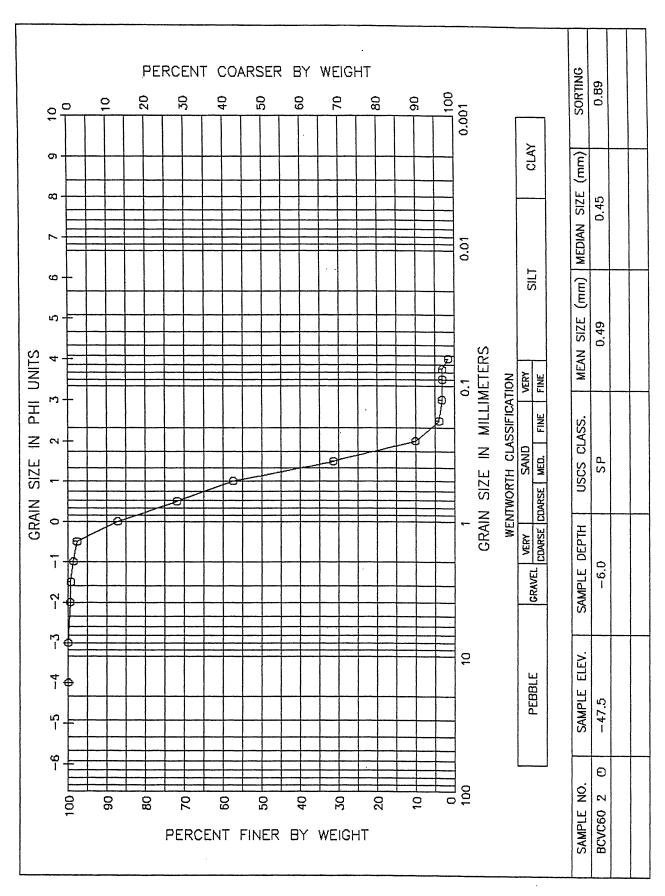
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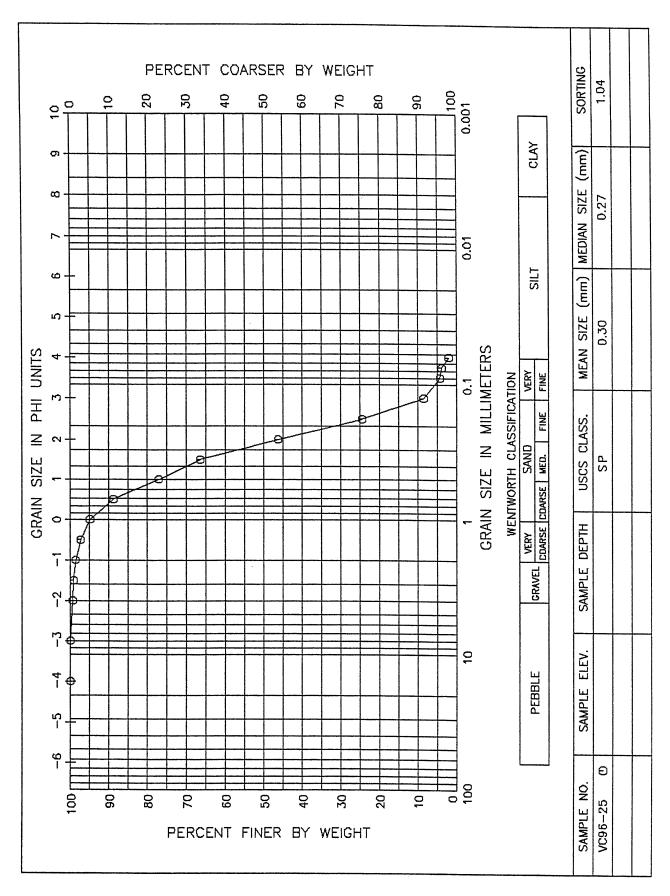
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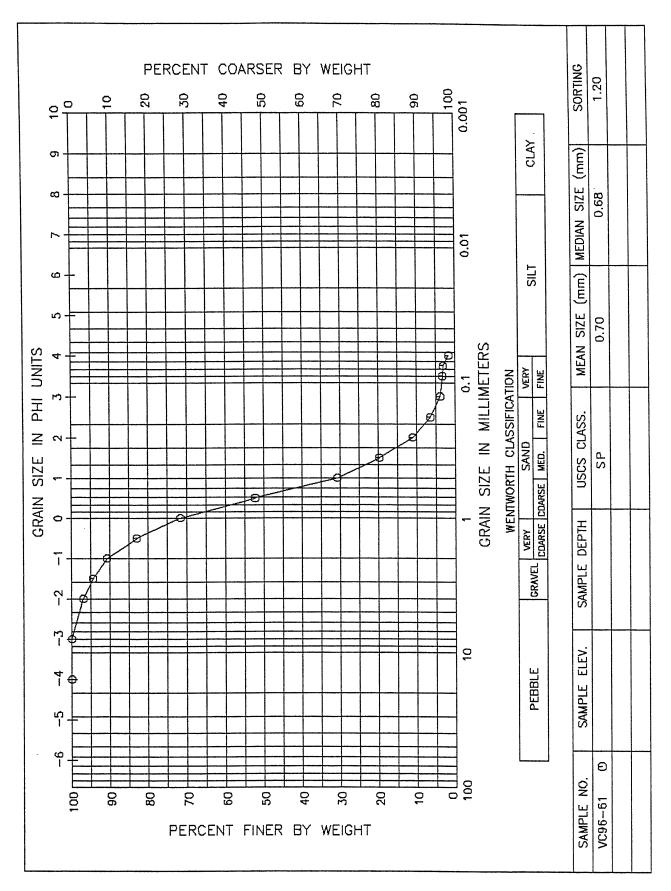
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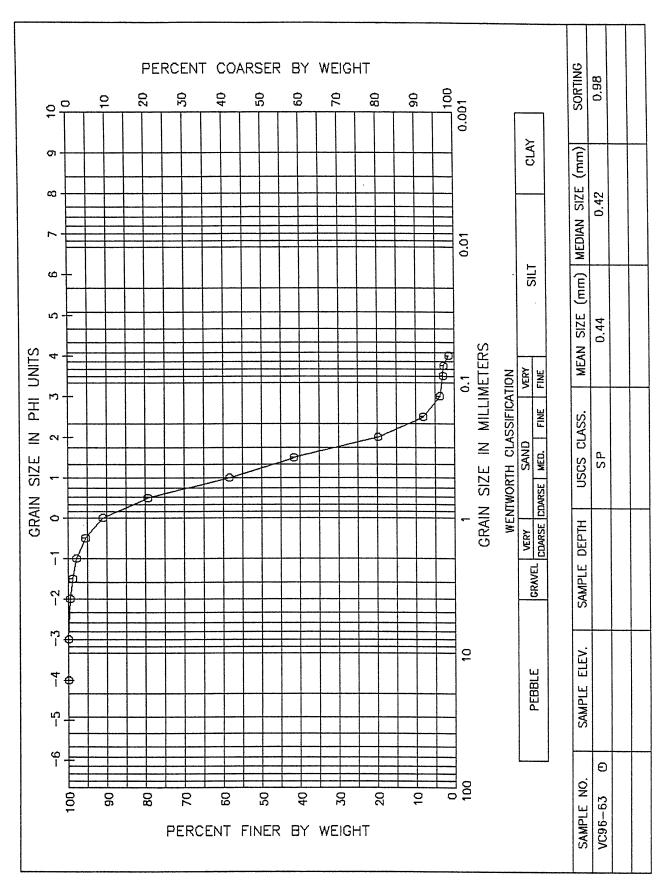
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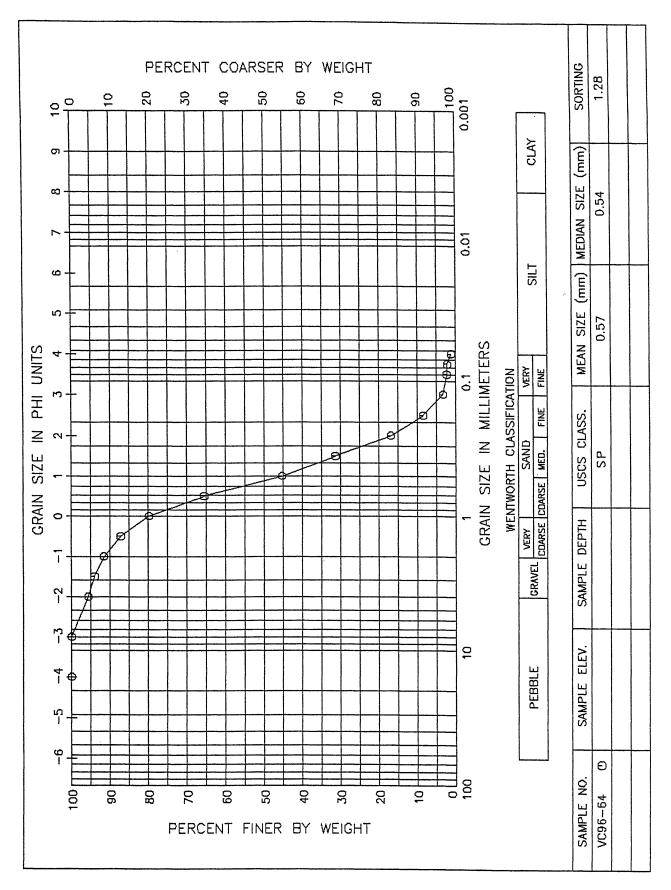
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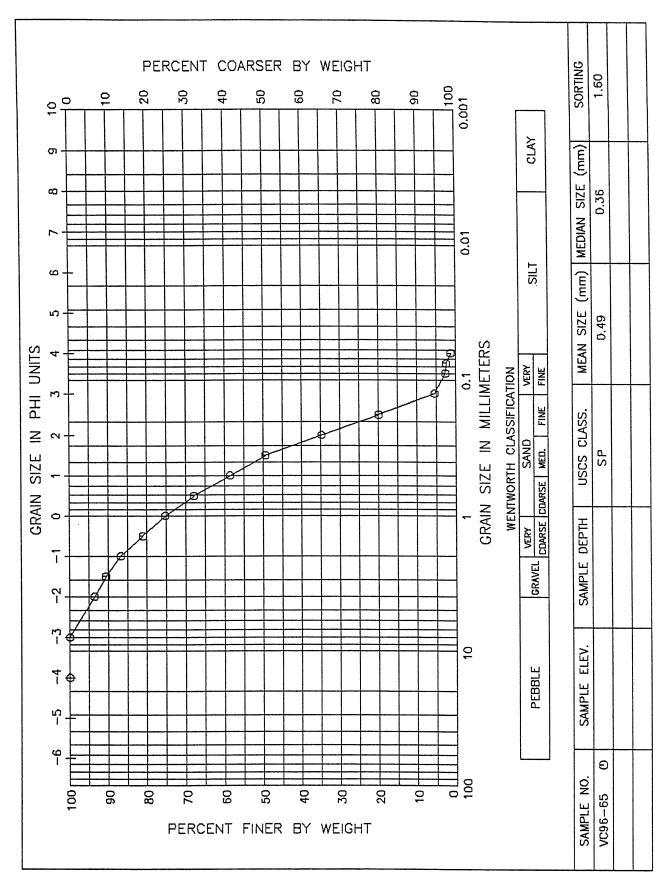
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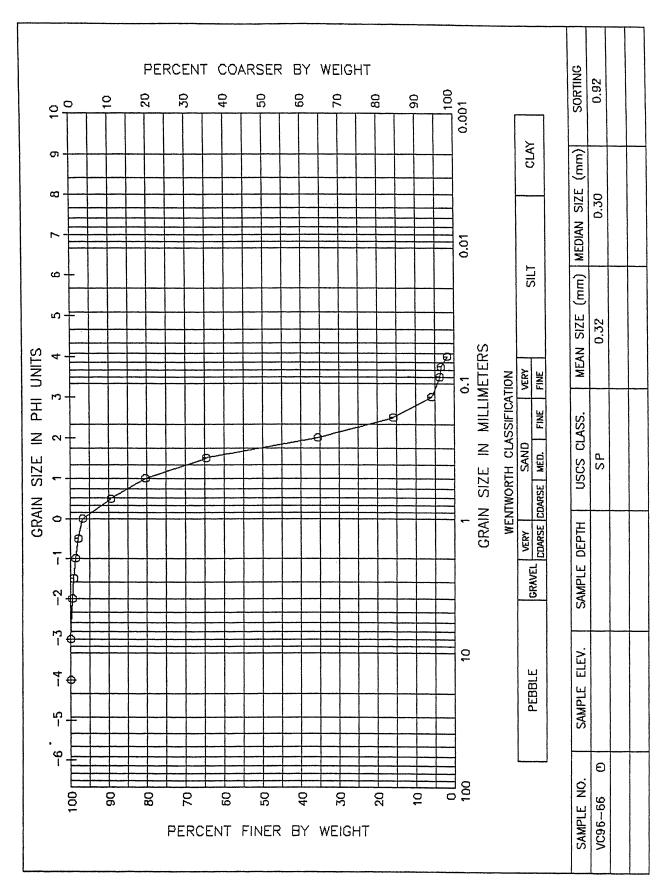
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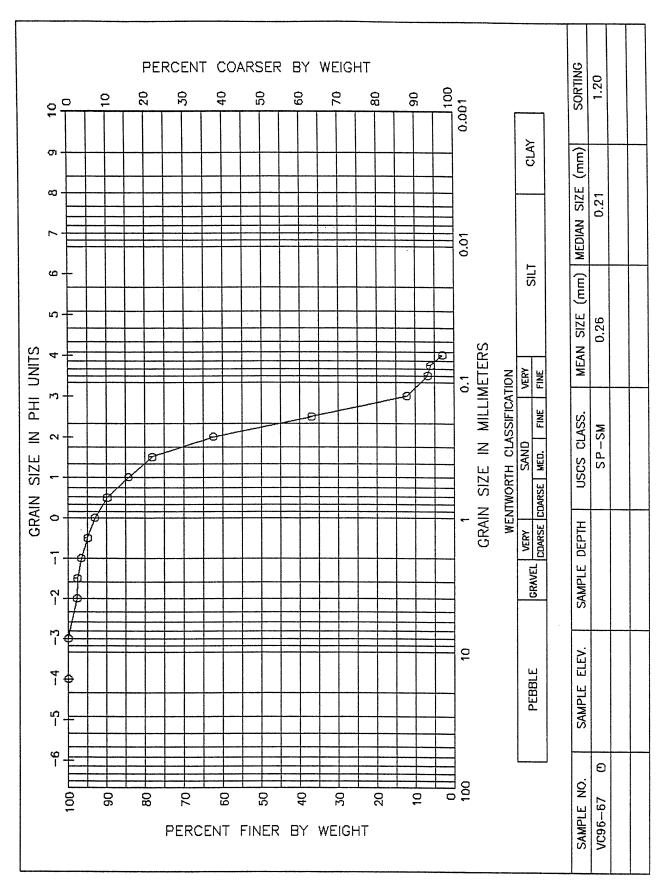
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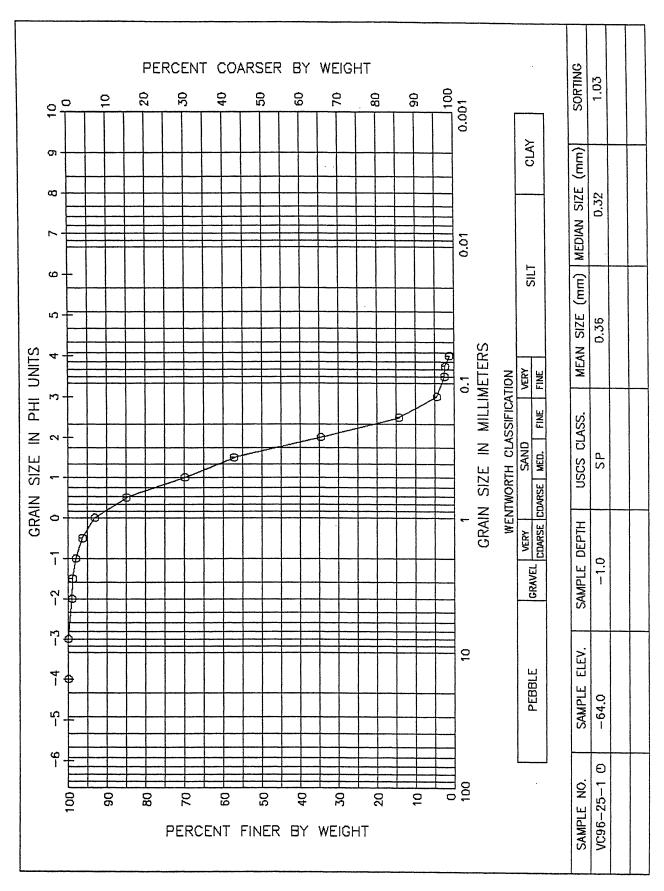


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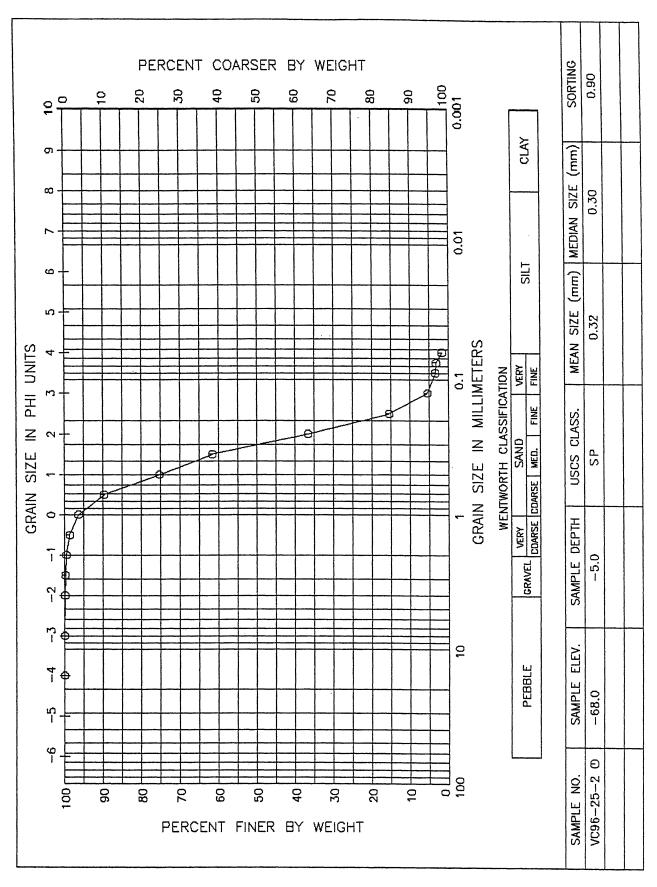


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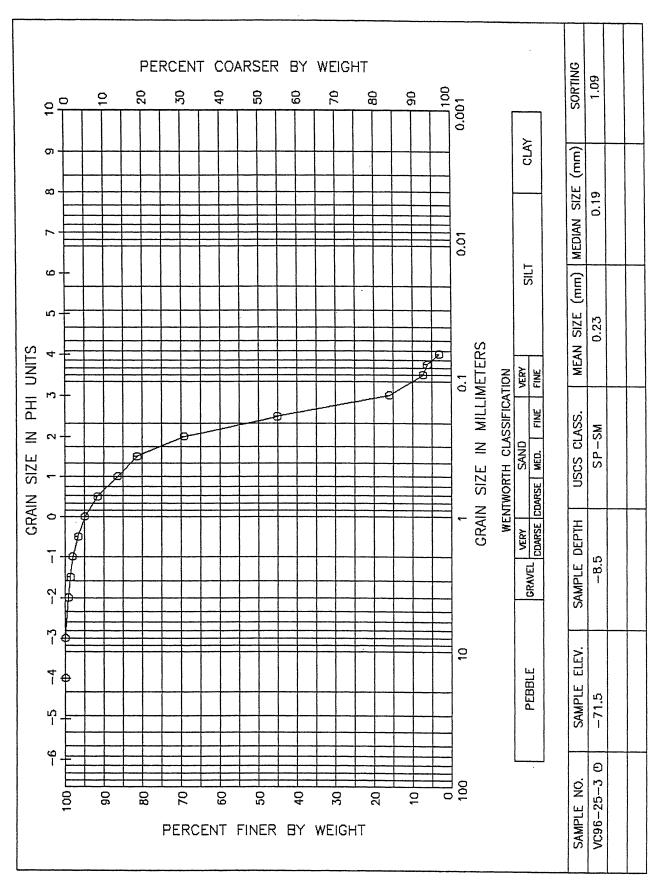




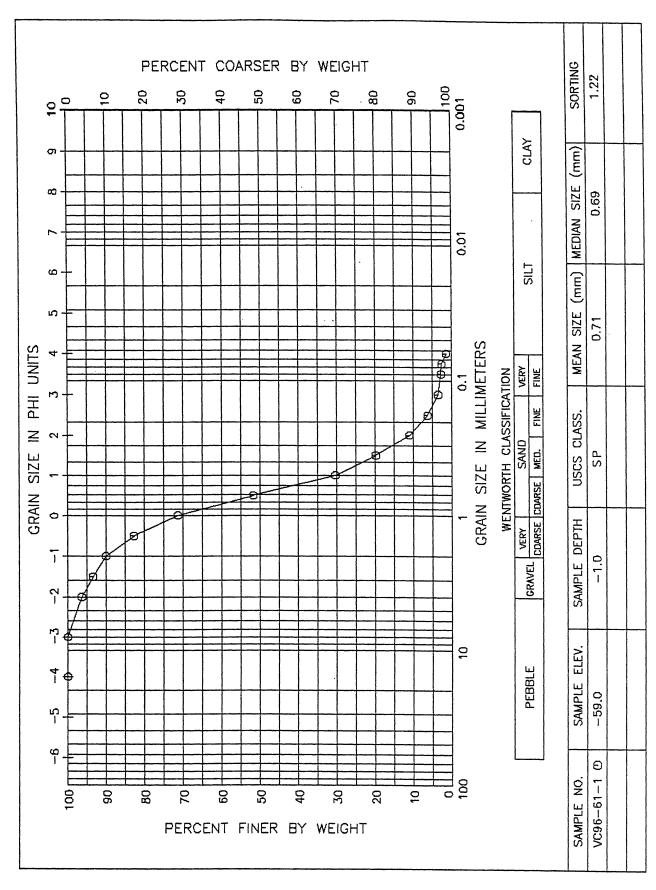
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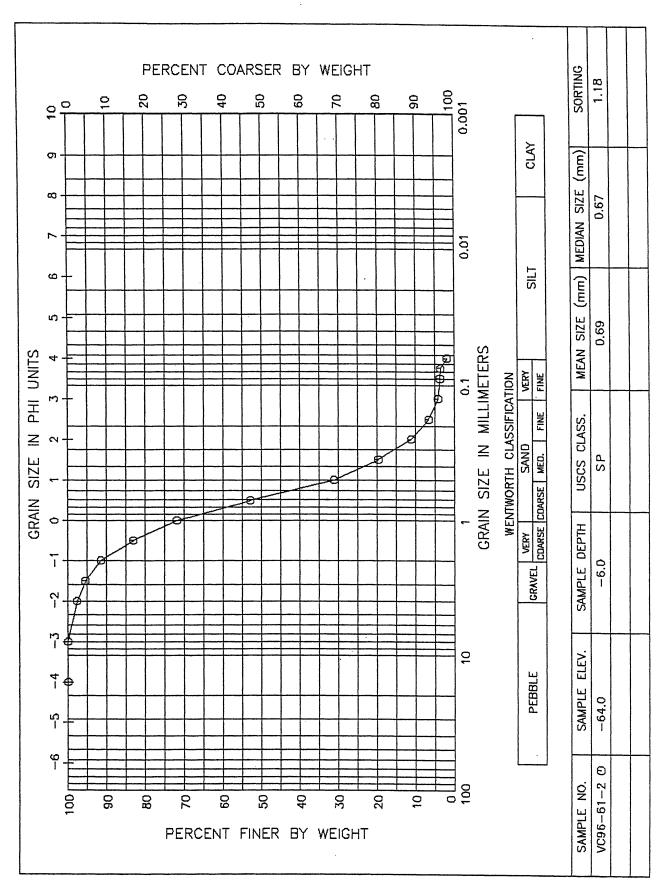
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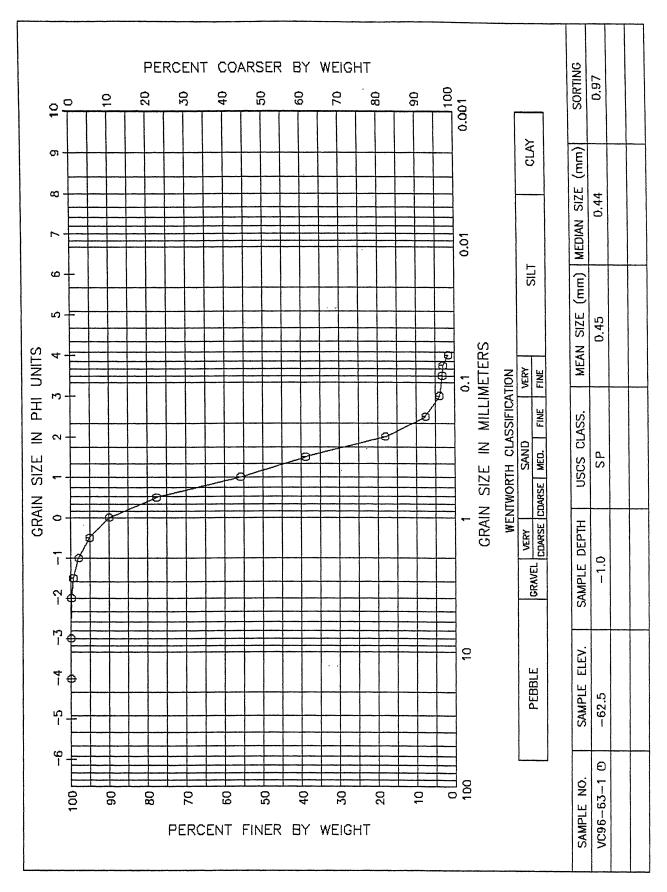
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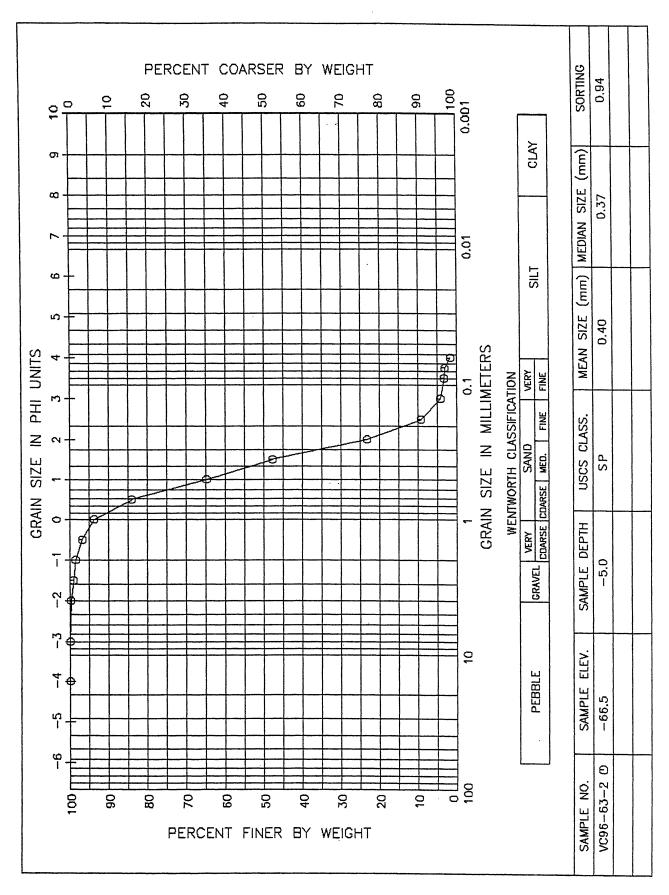
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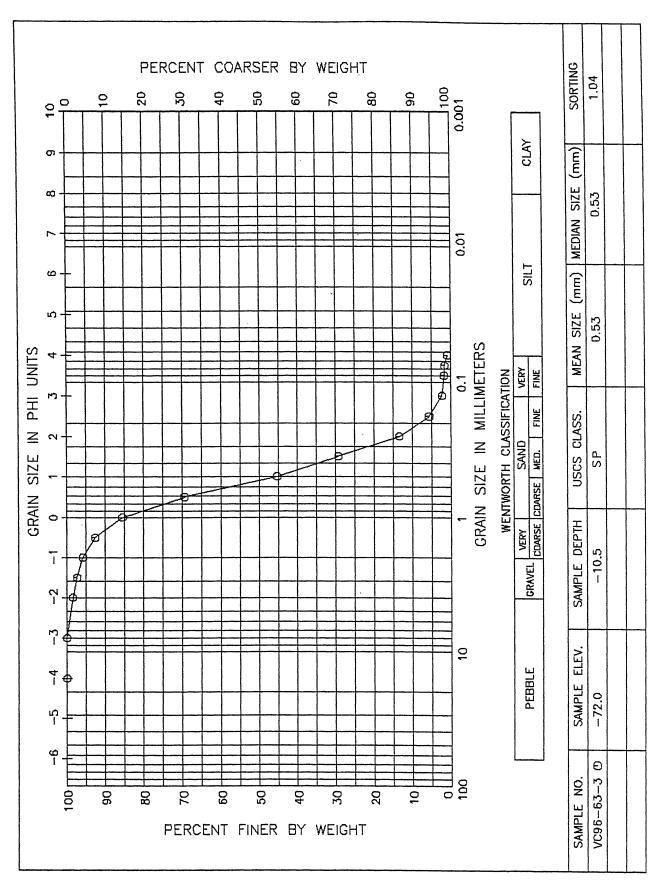
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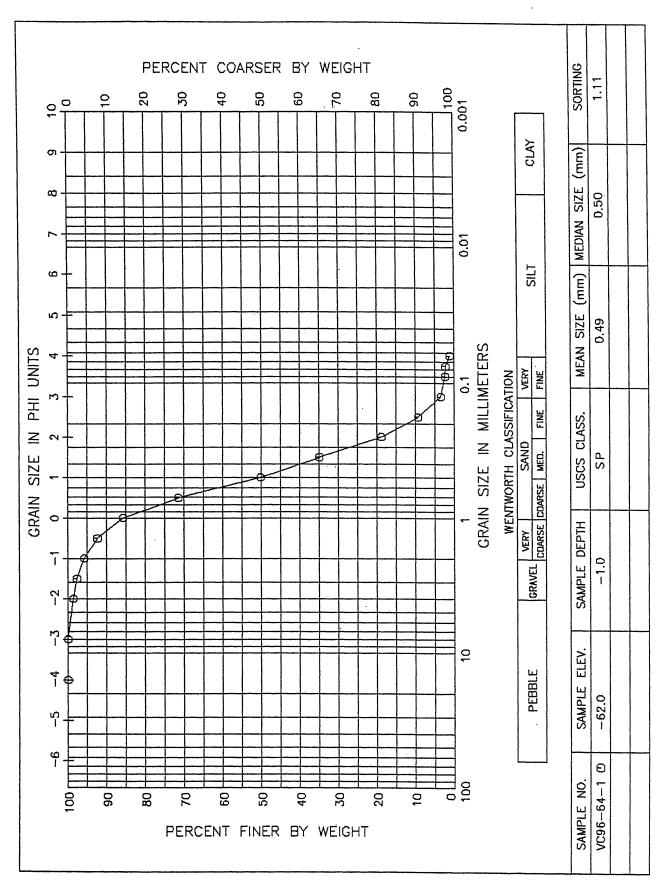
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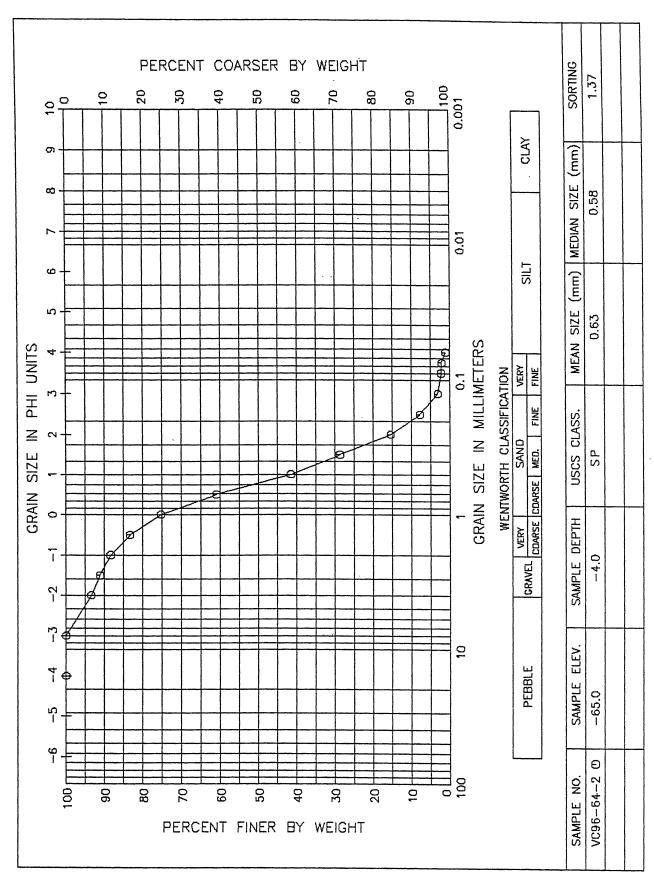
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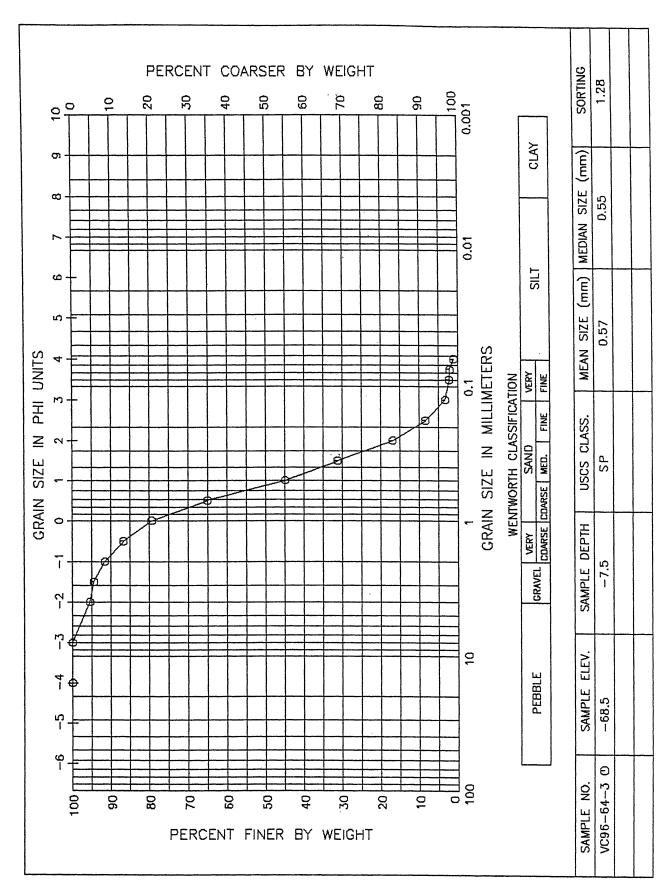
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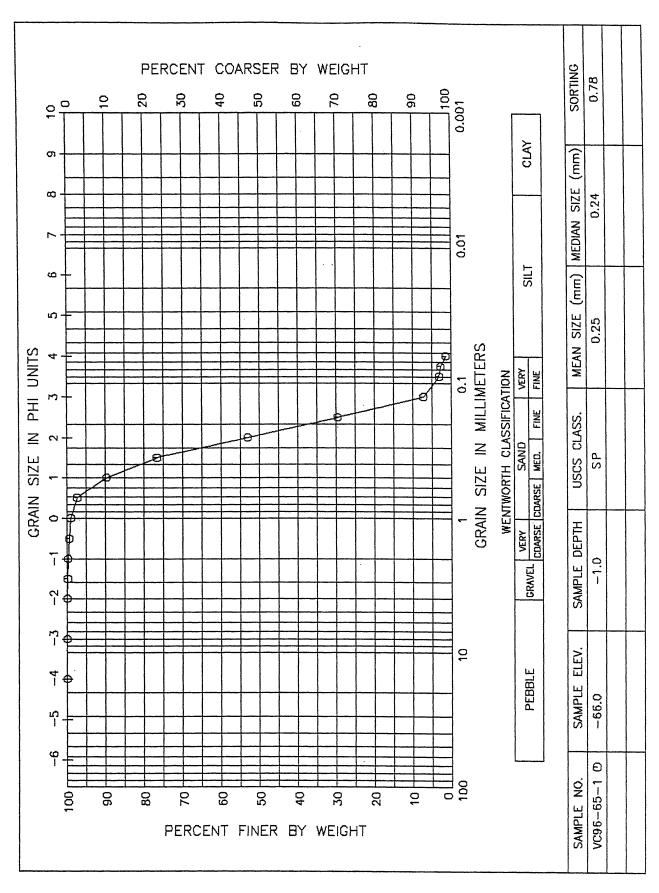
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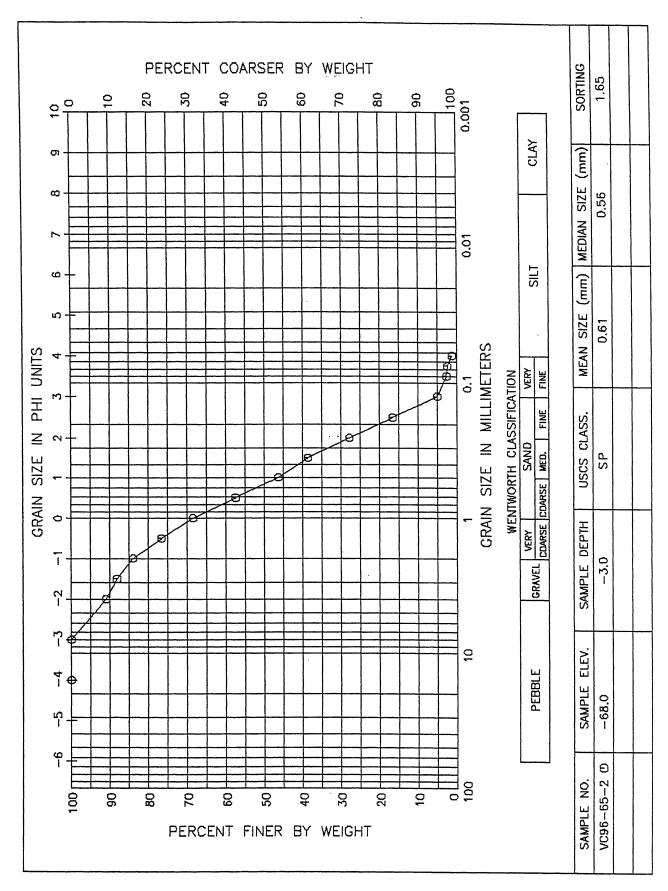
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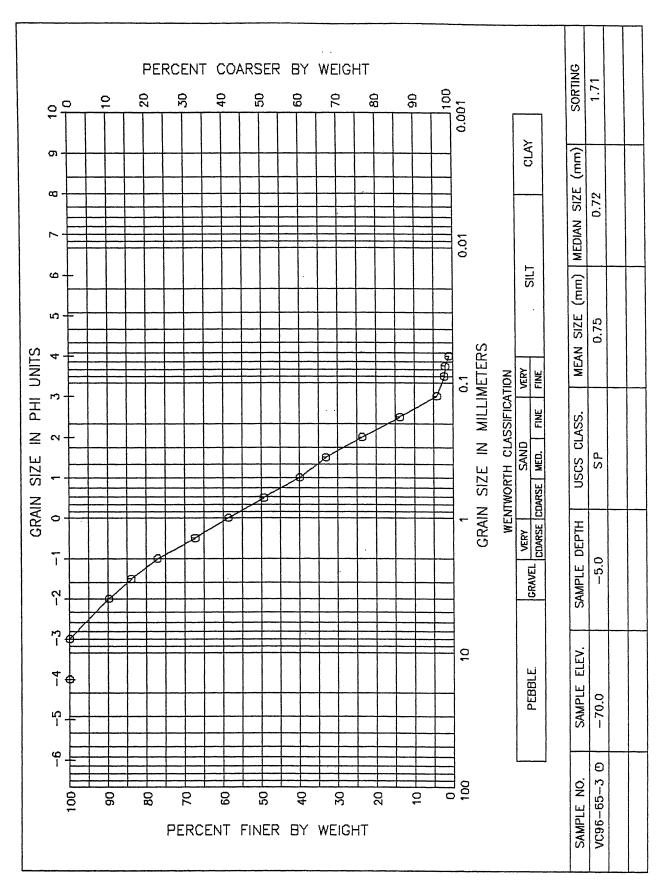
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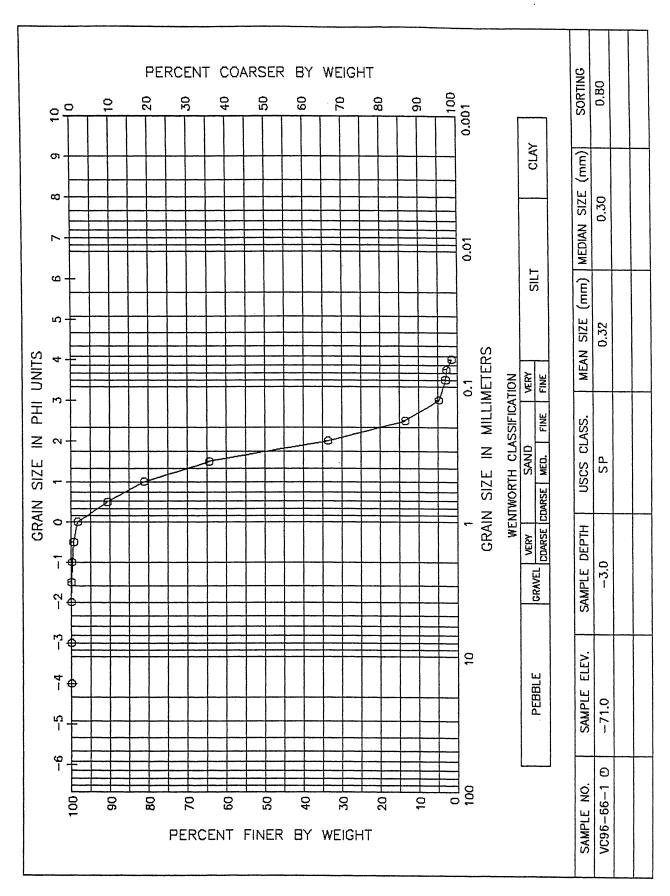
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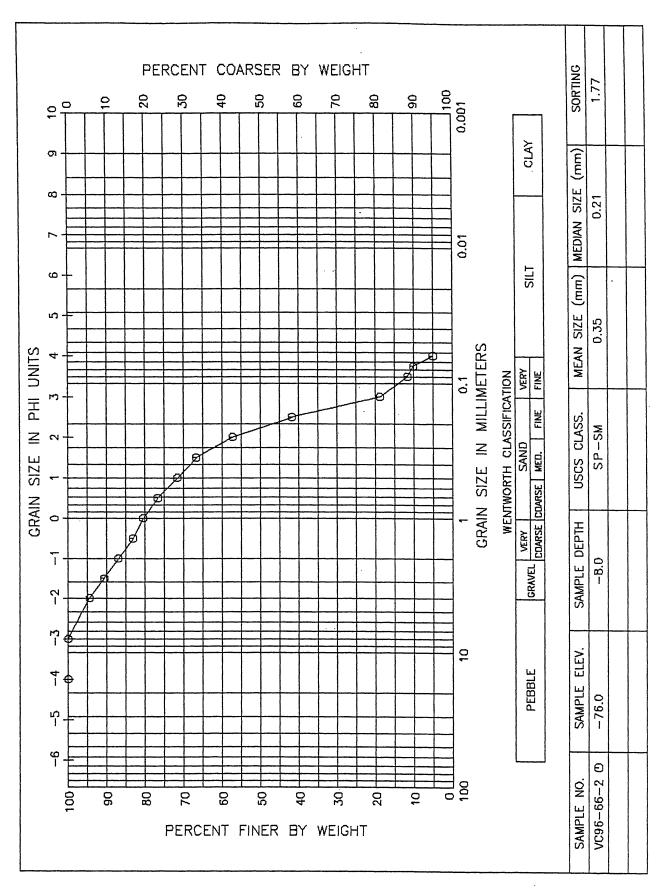
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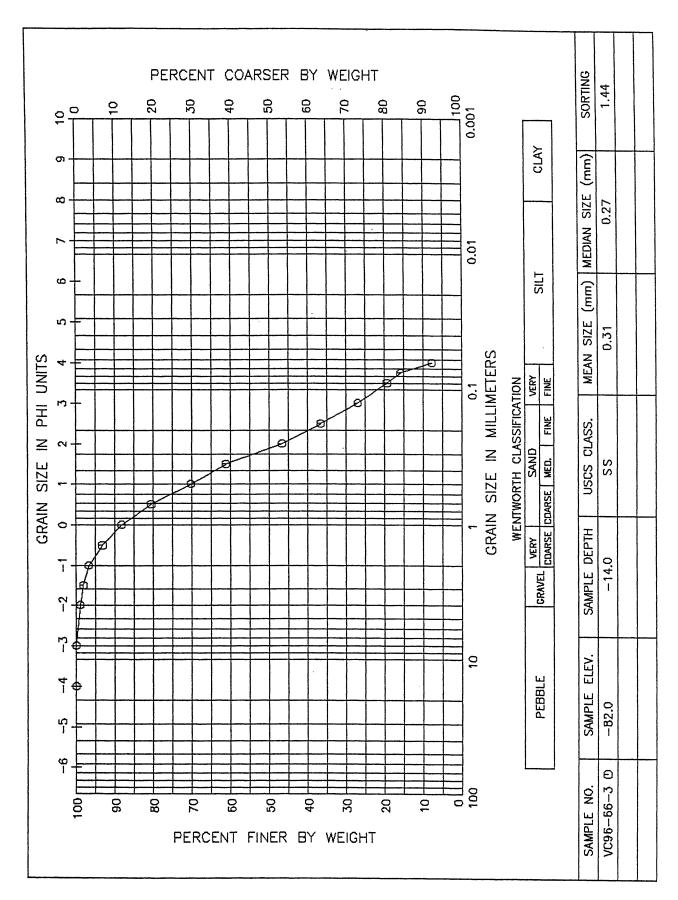
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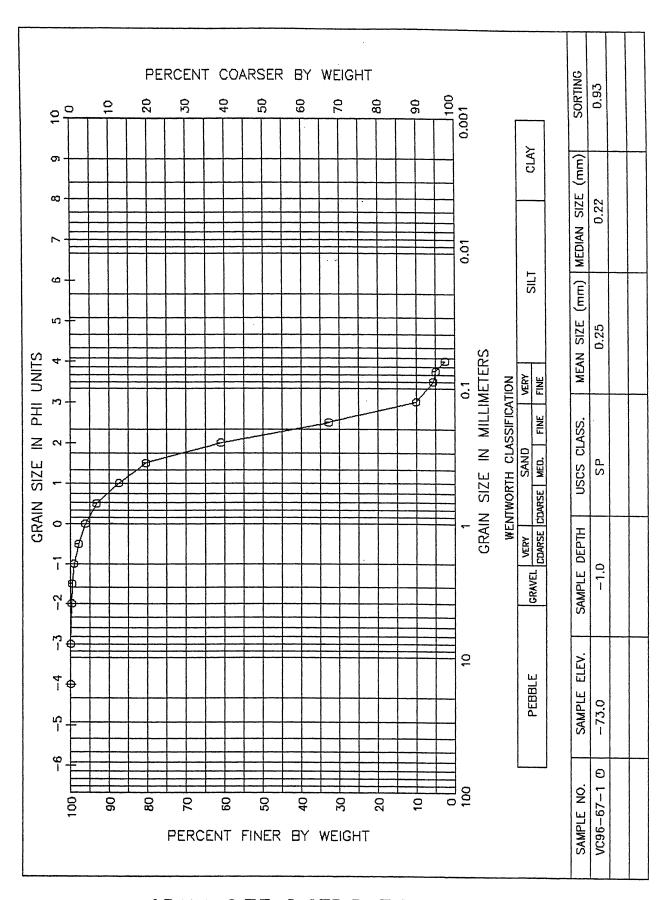
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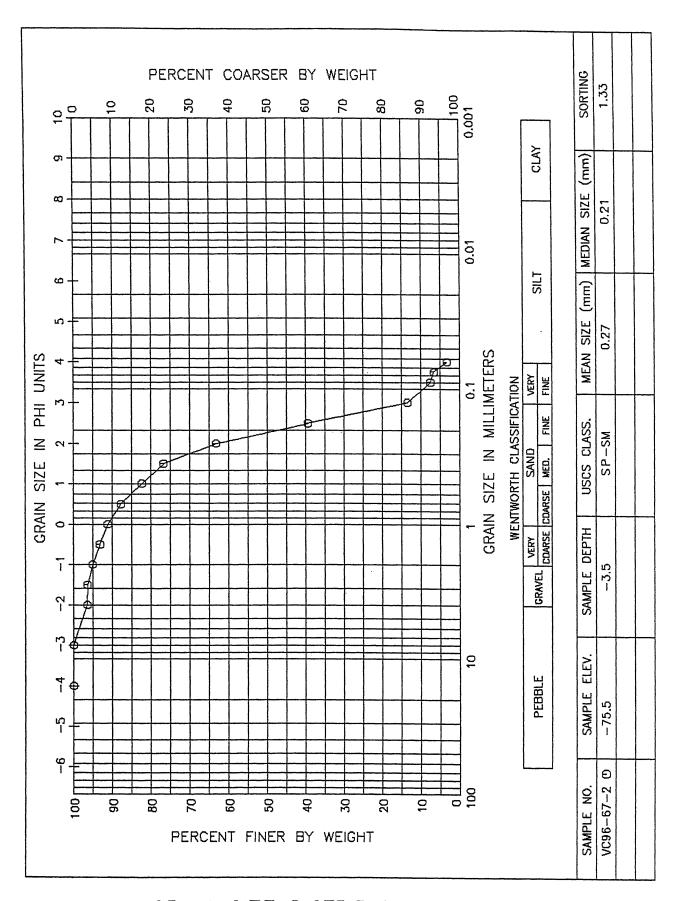
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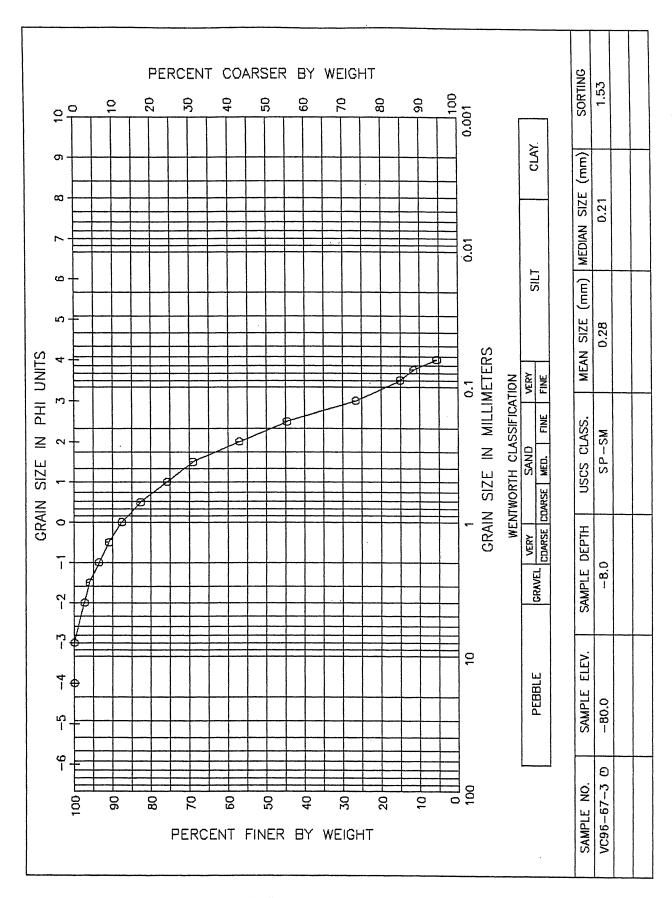
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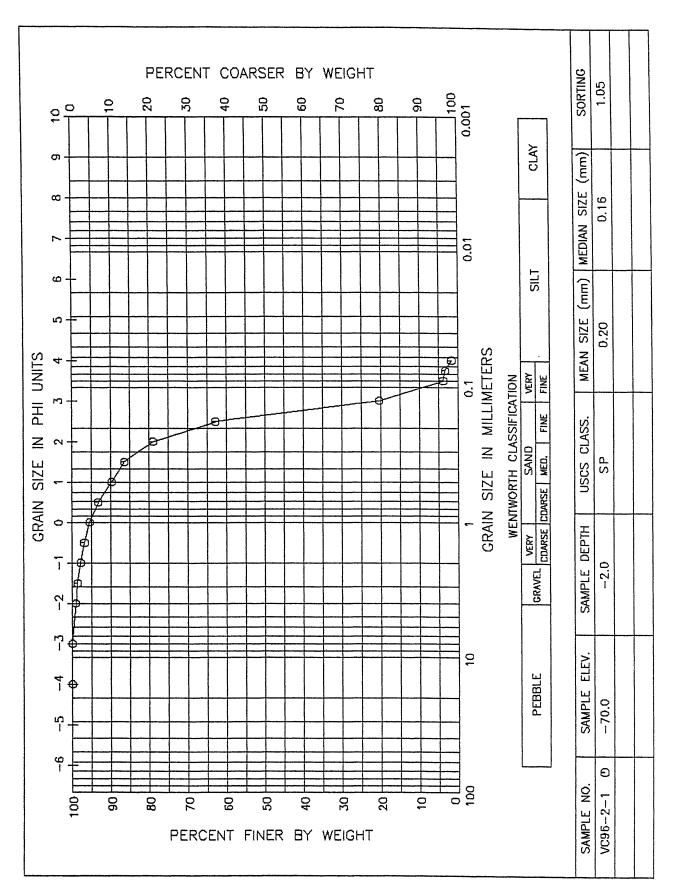
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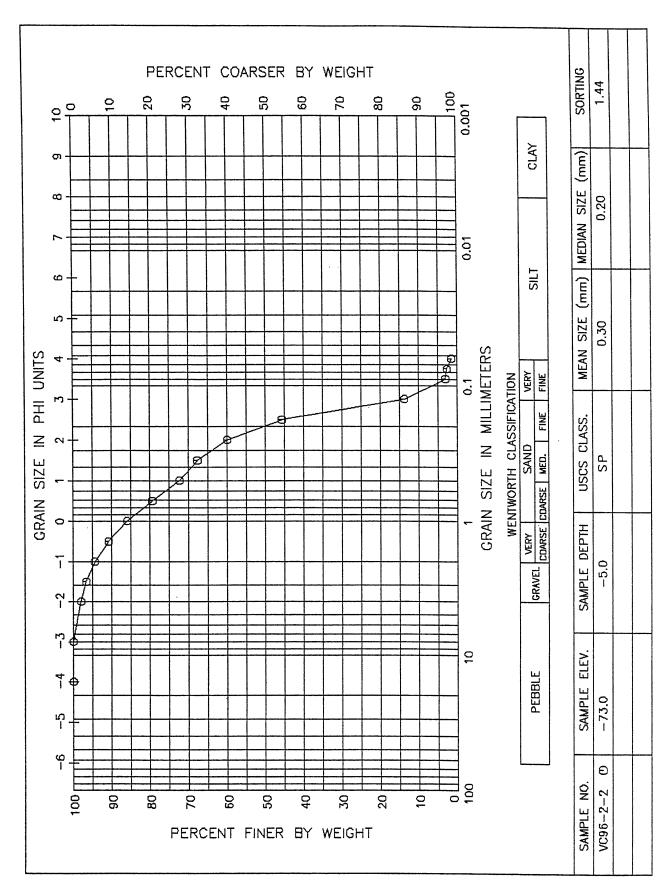
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SUB-APPENDIX B-4h OUTSIDE BORROW AREAS

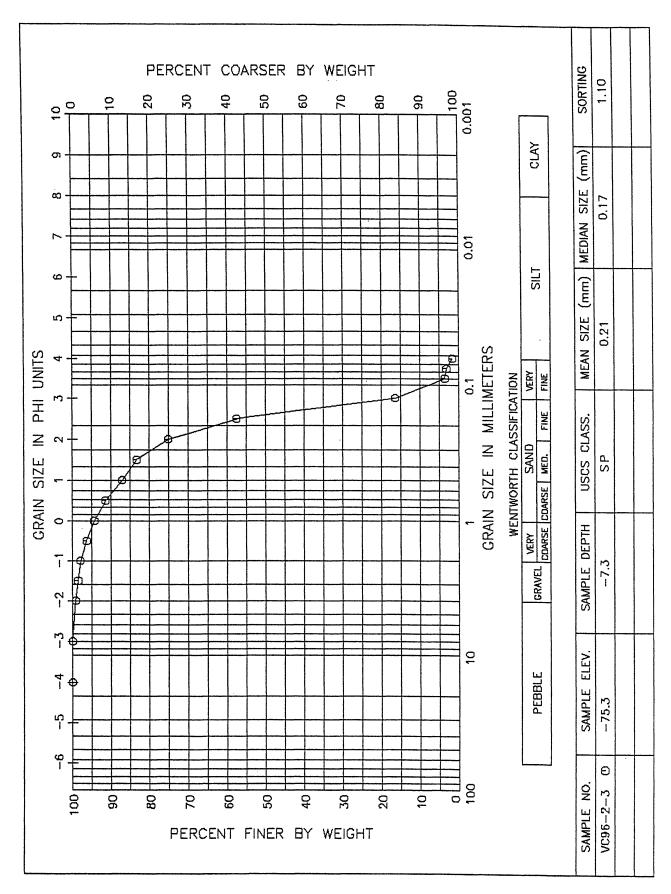
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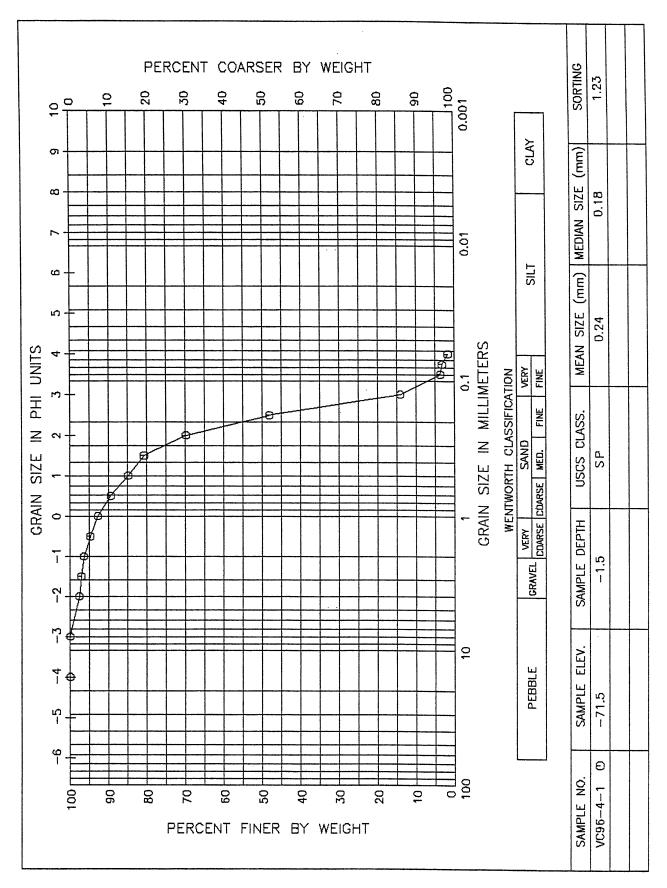
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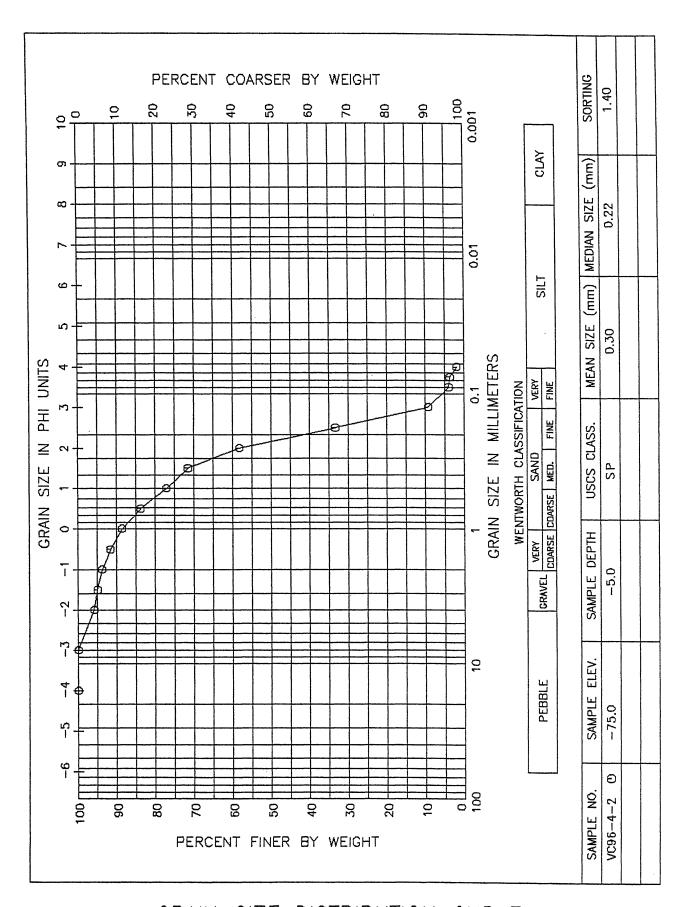
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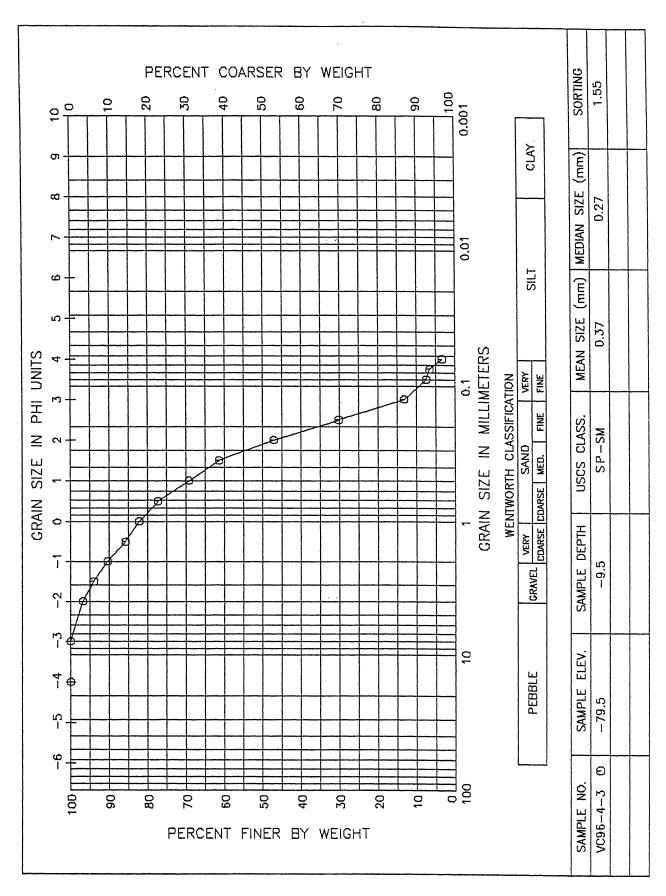


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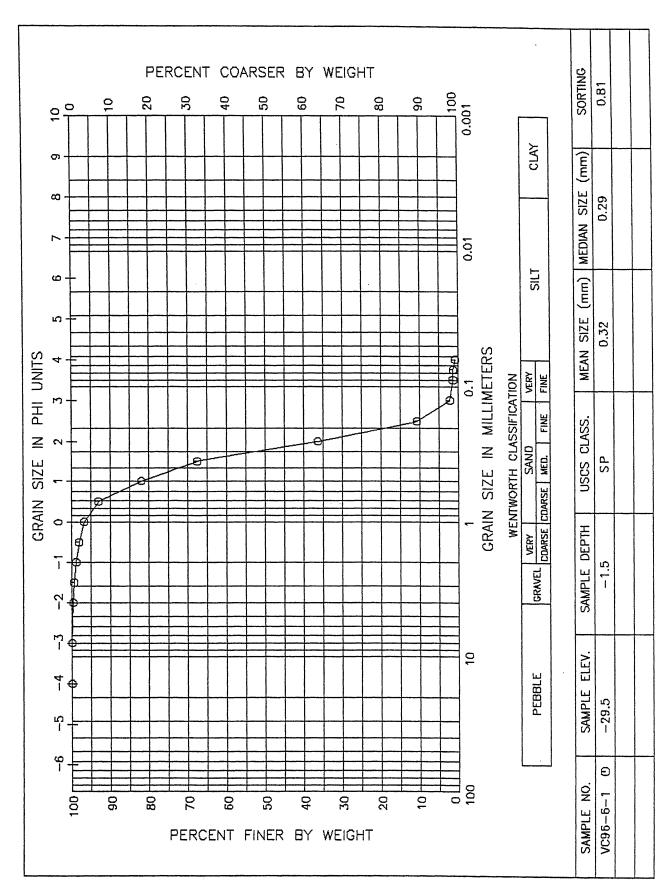


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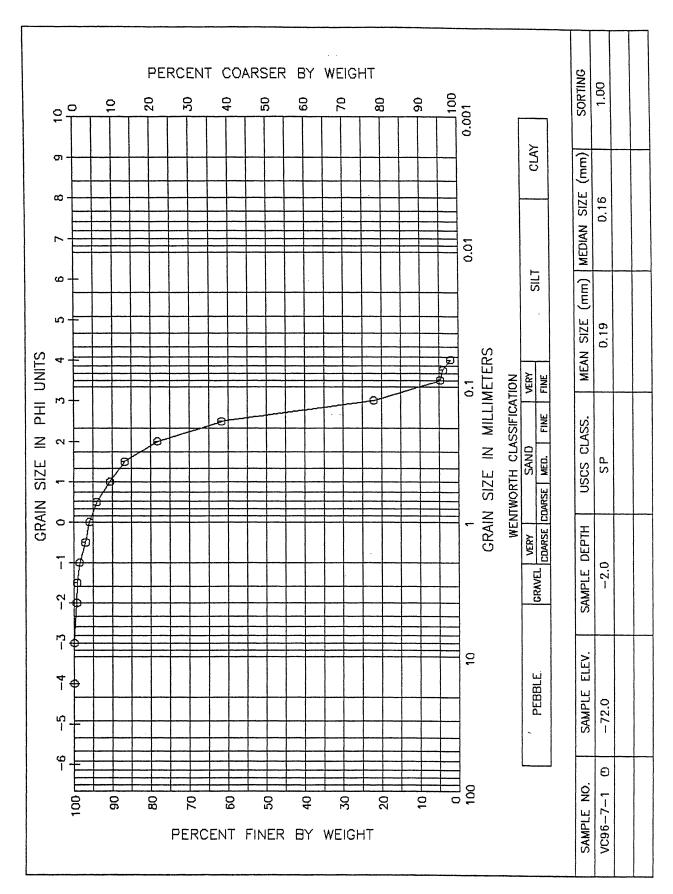




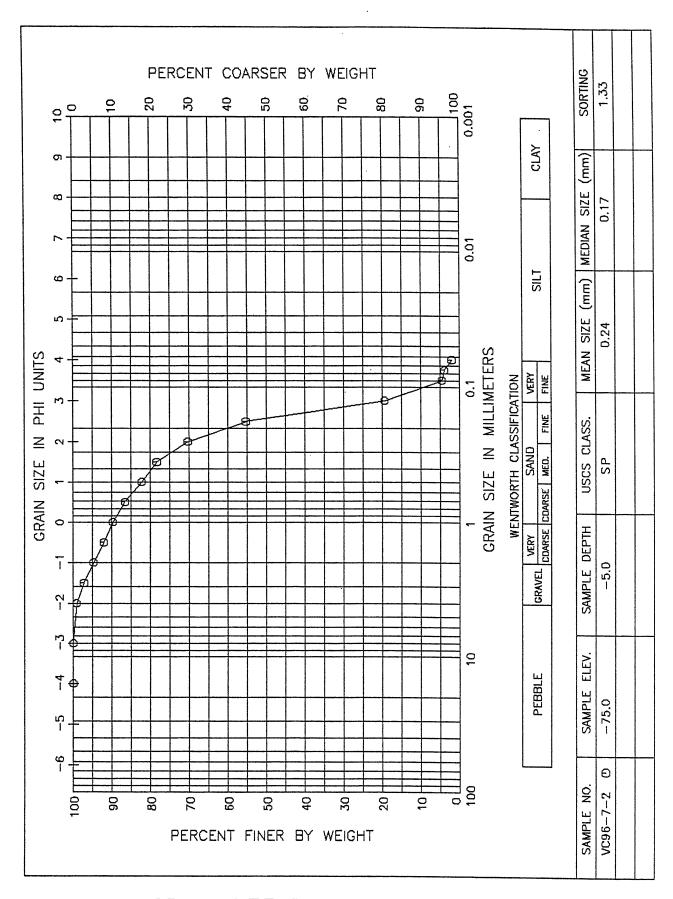
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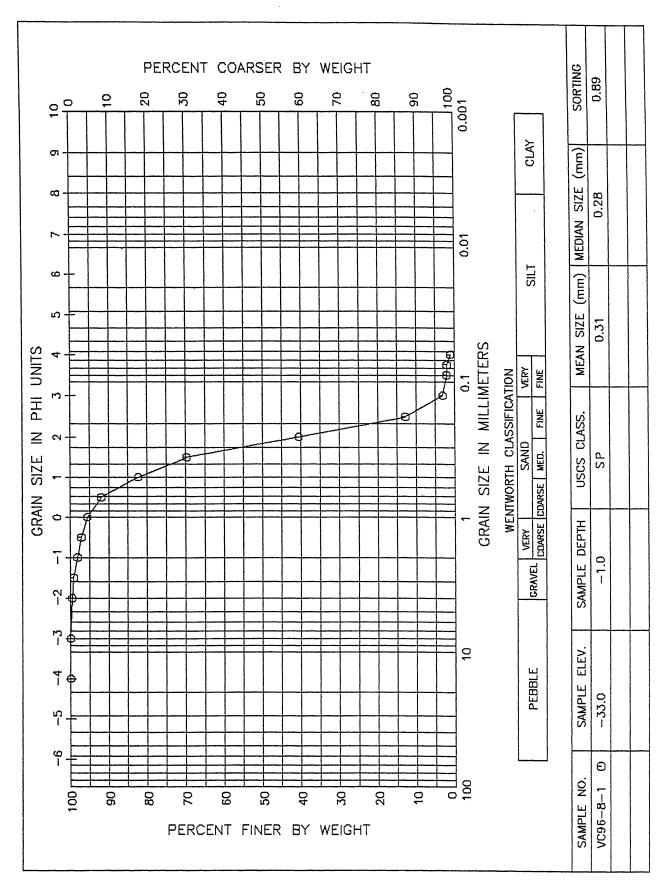
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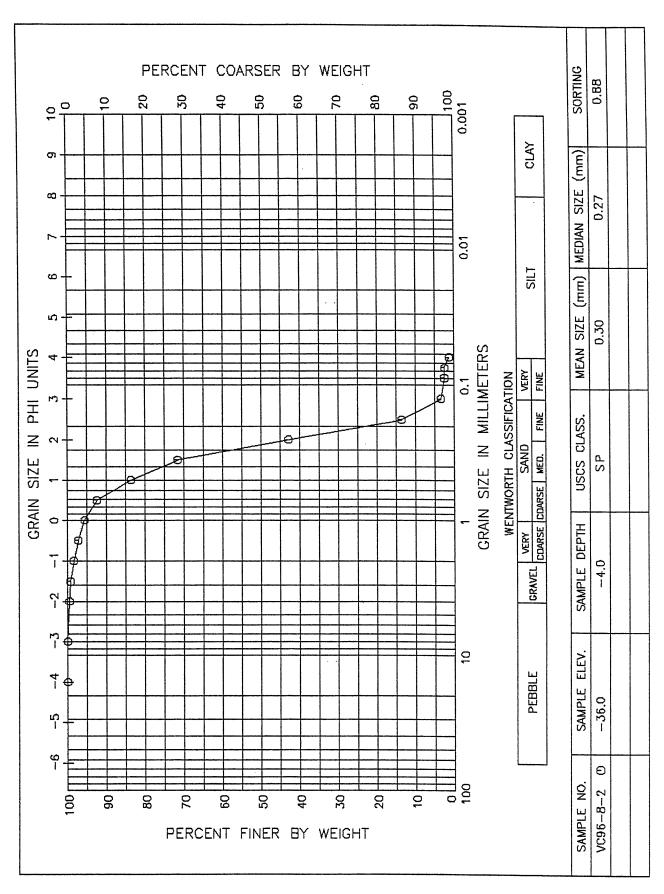
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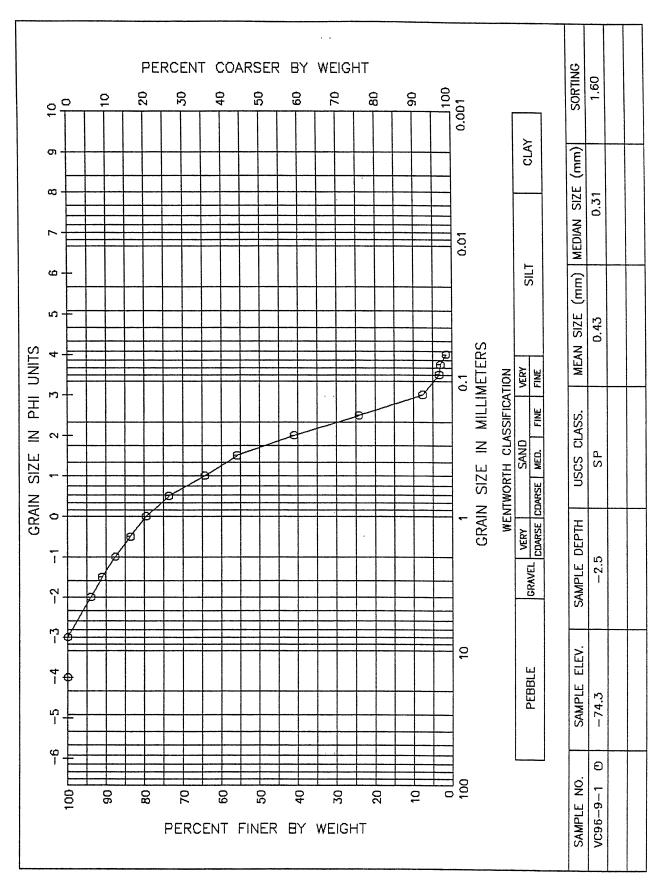
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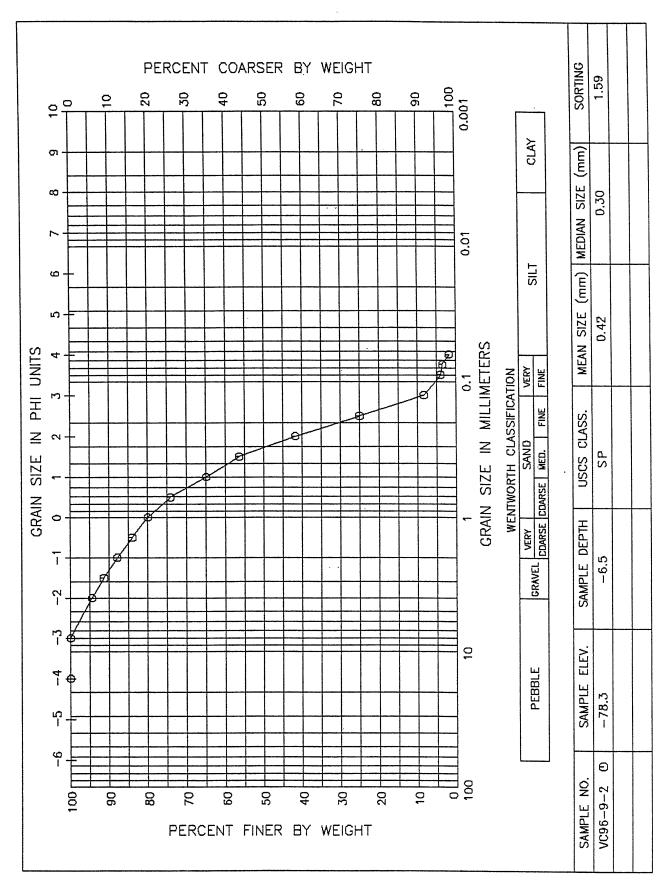
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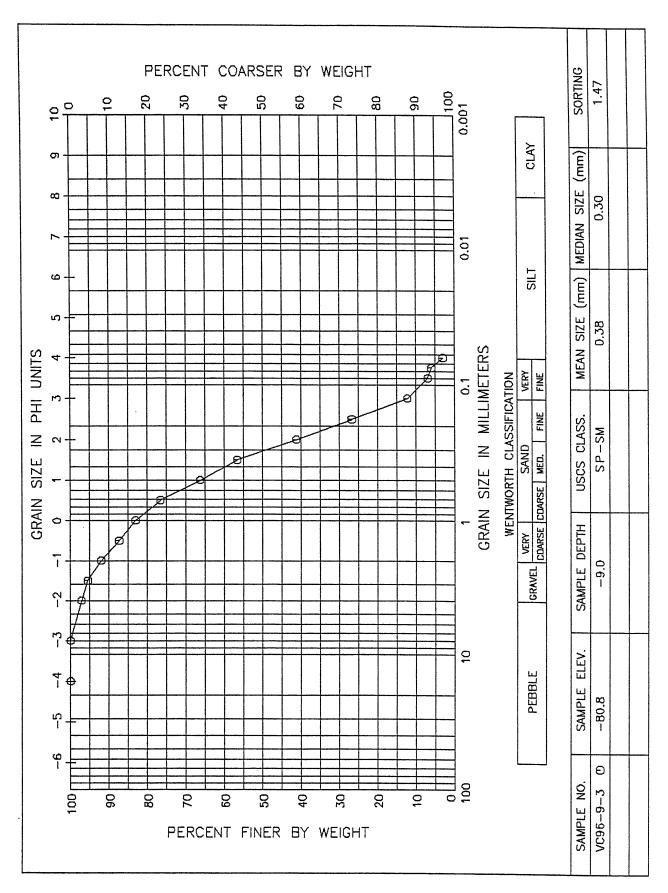
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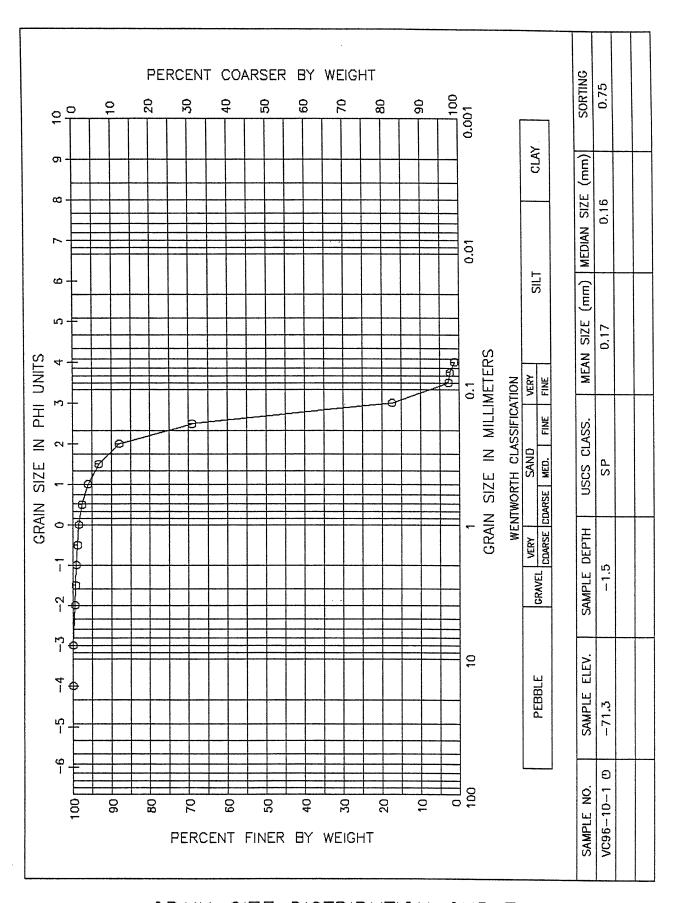
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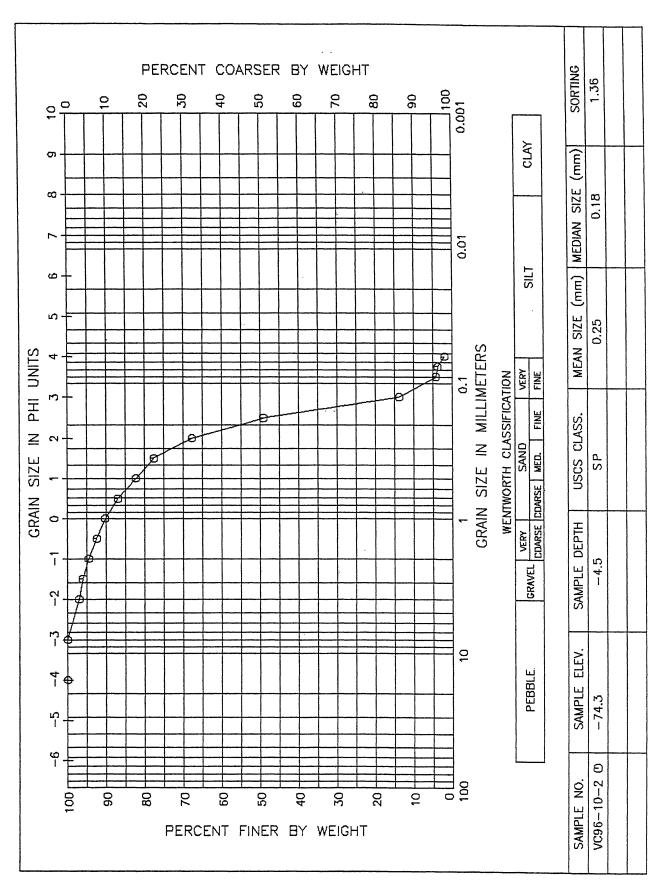


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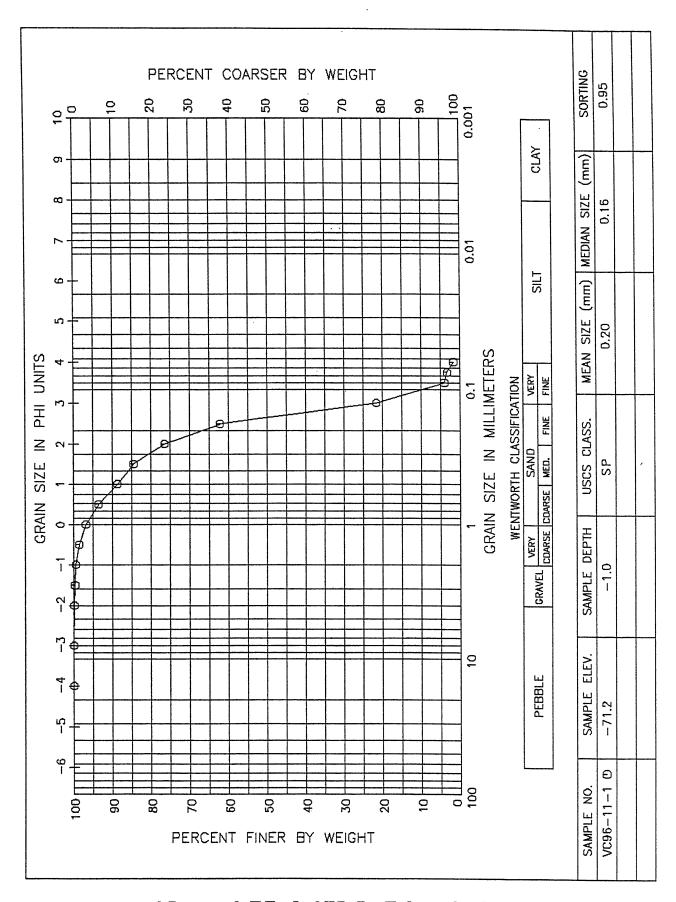


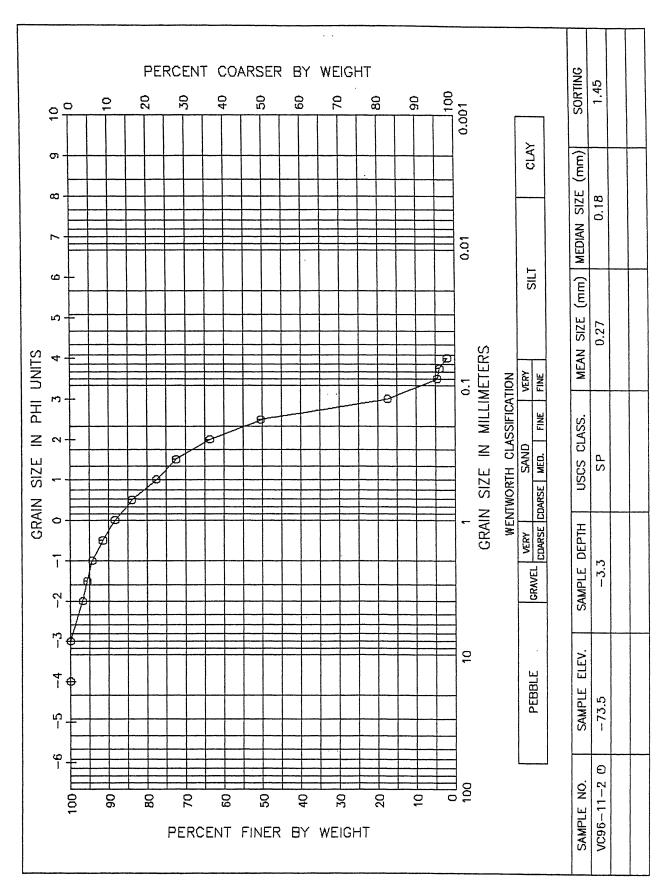
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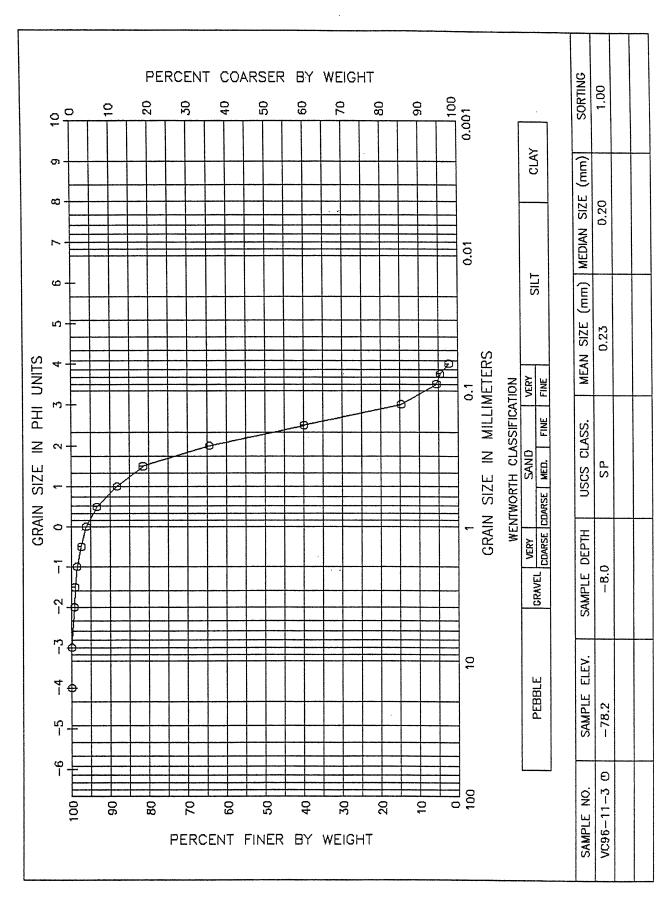


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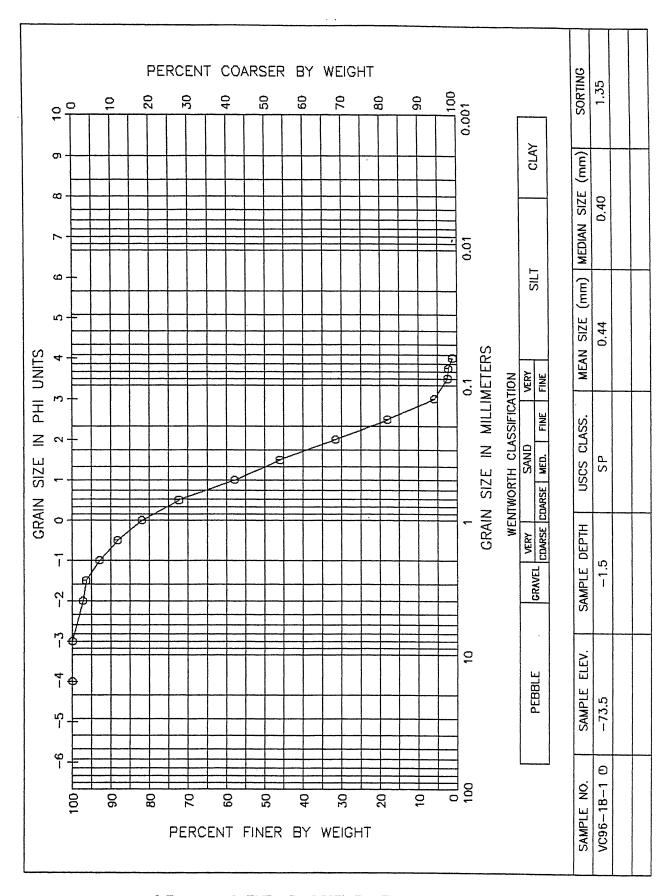




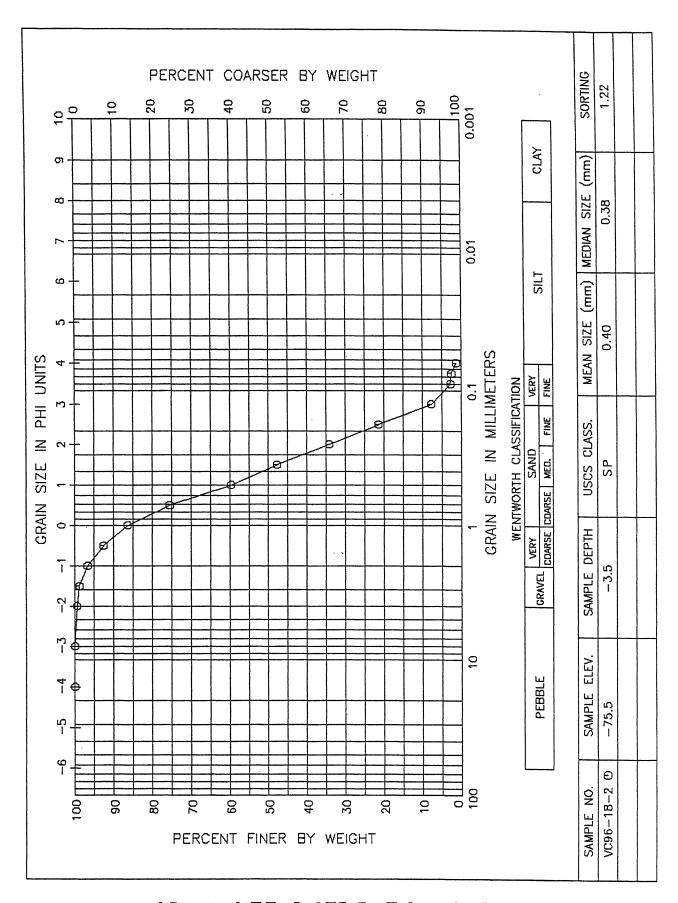
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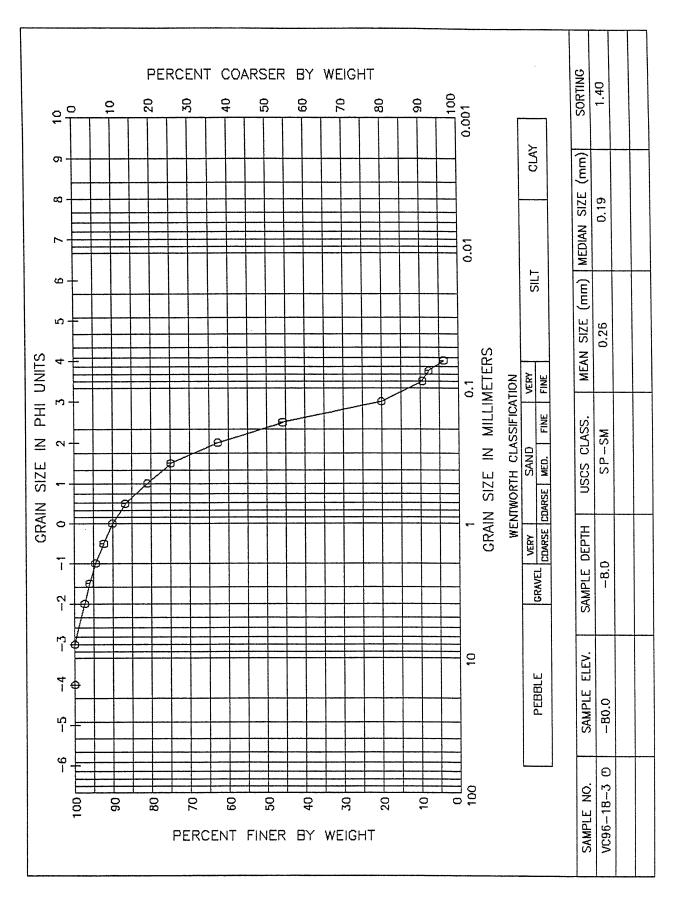
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



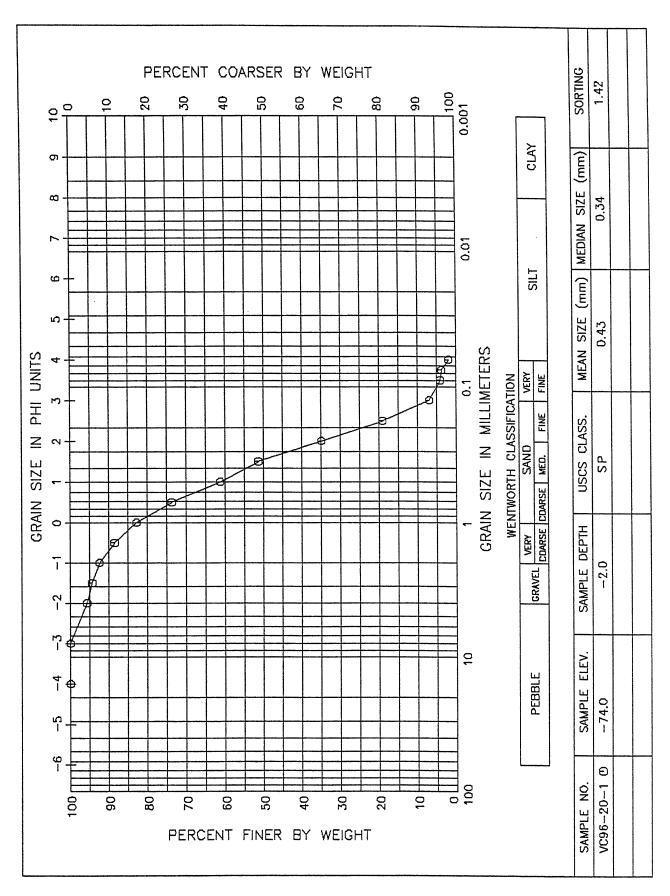
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



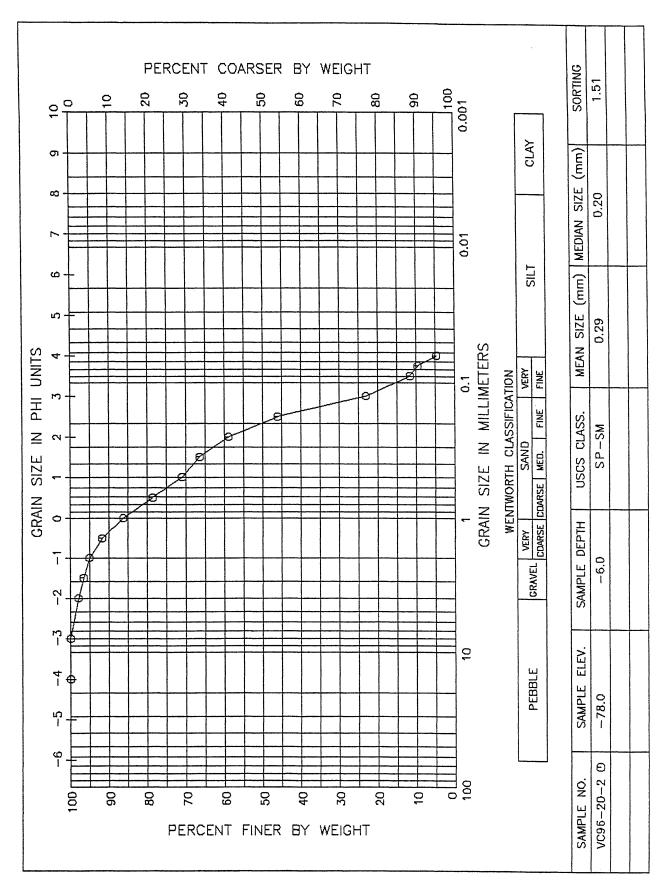
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



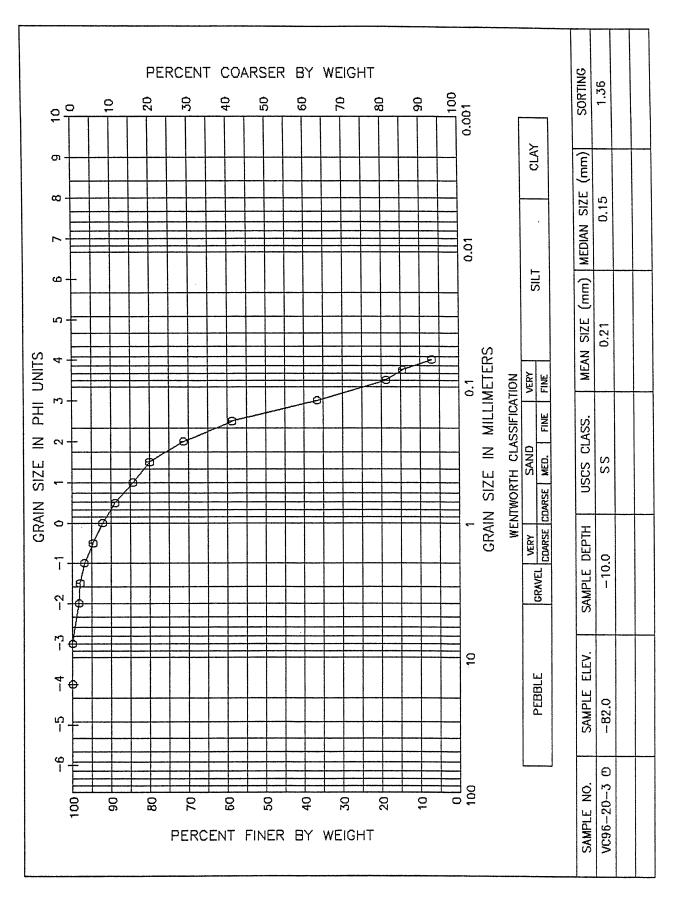
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



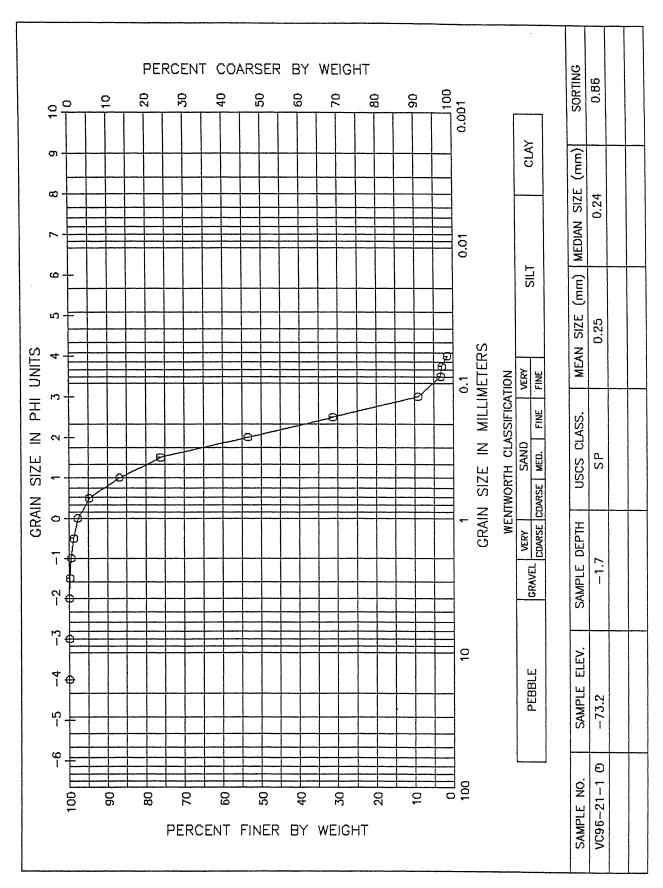
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



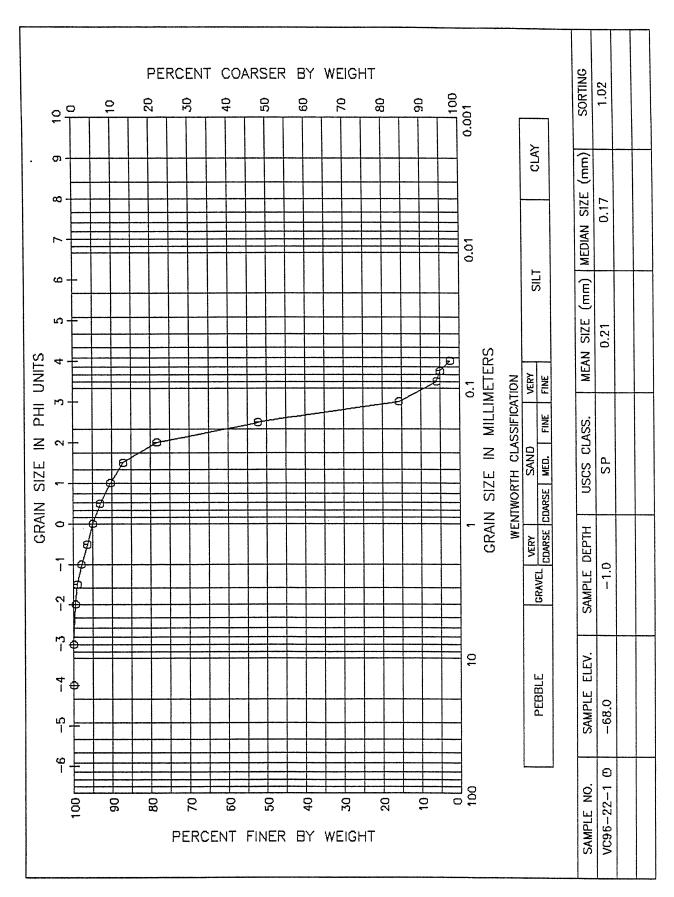
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96

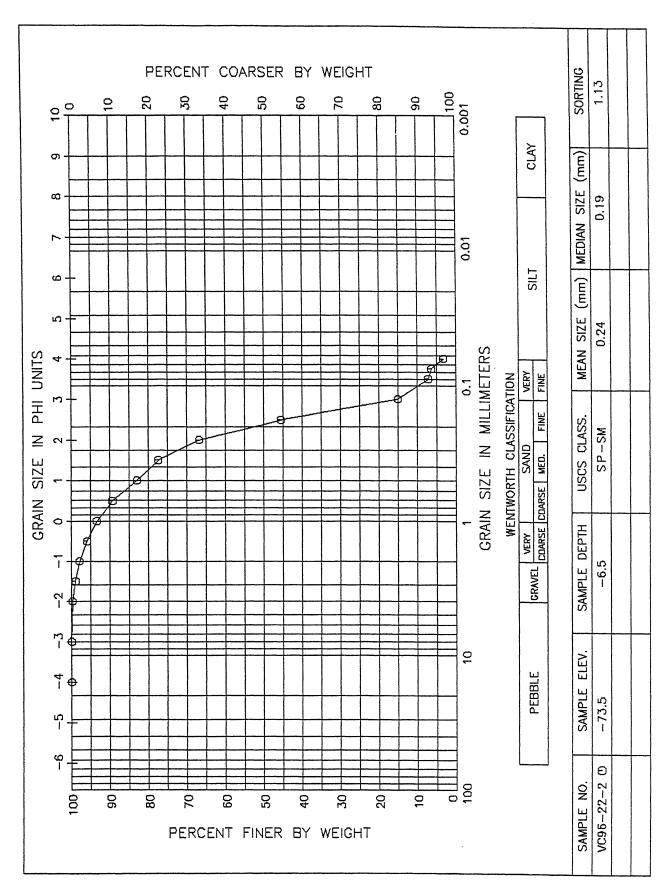


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96

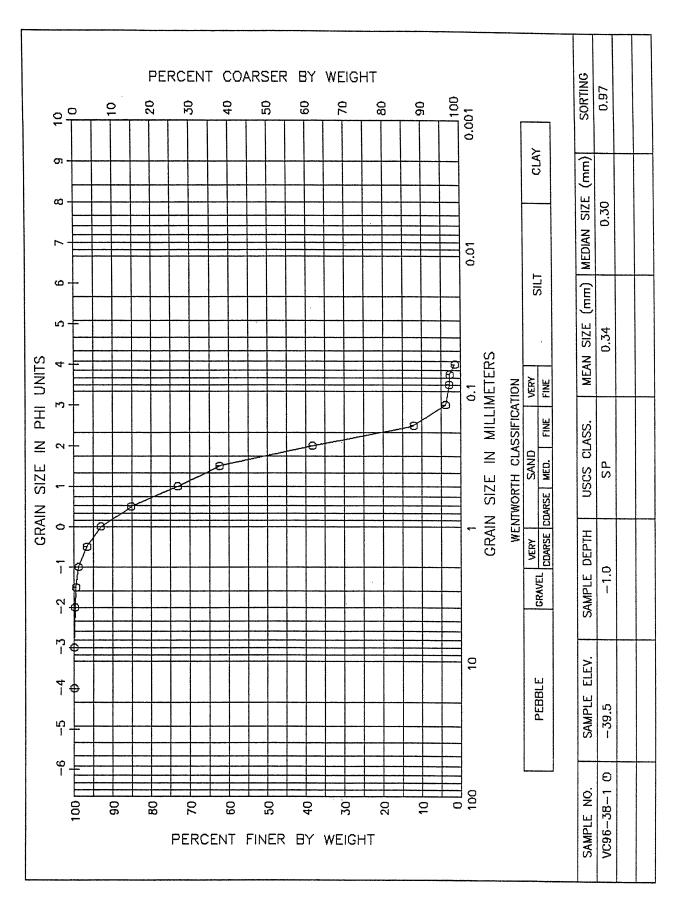


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96

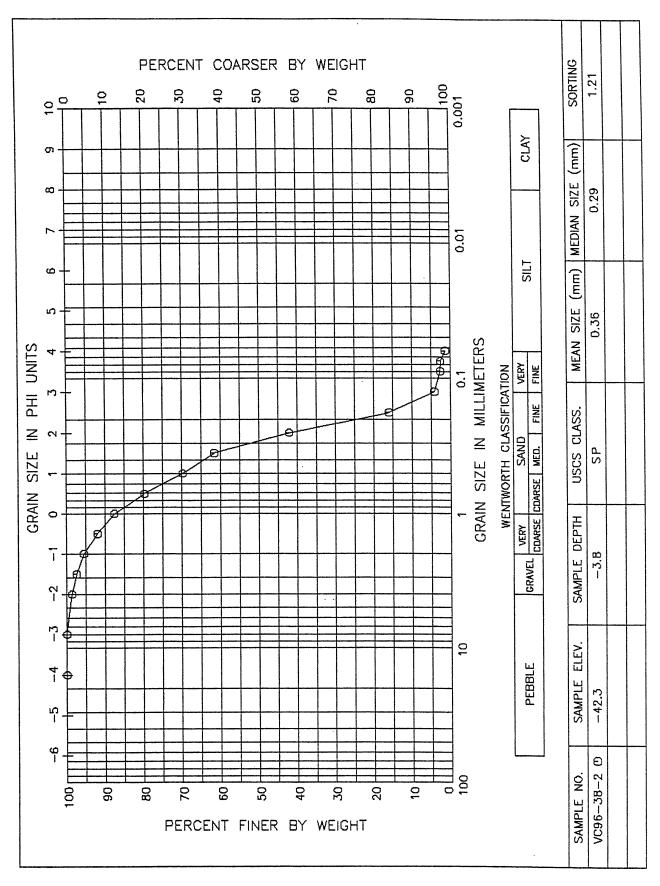




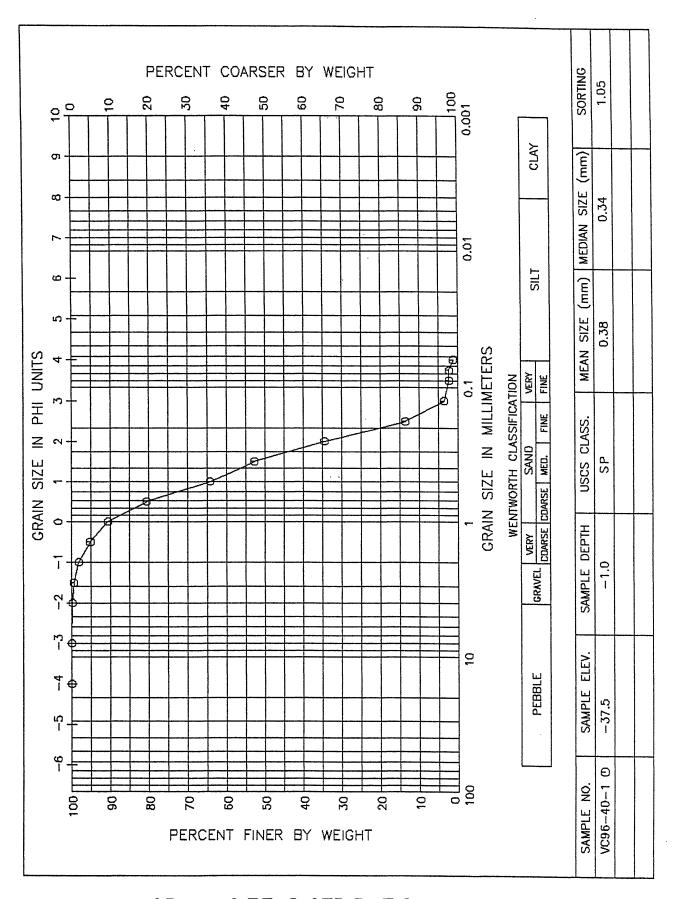
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 9/96



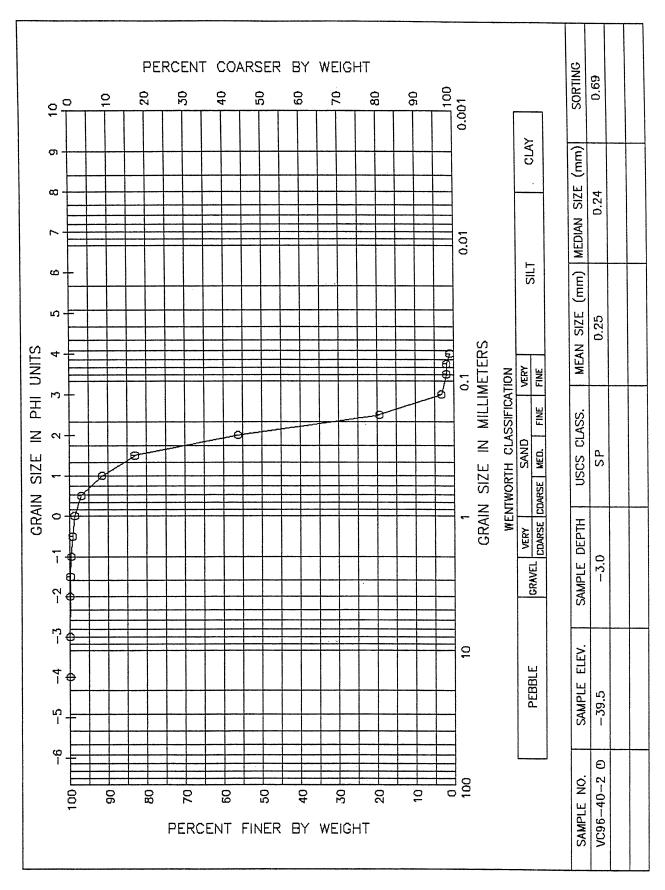
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



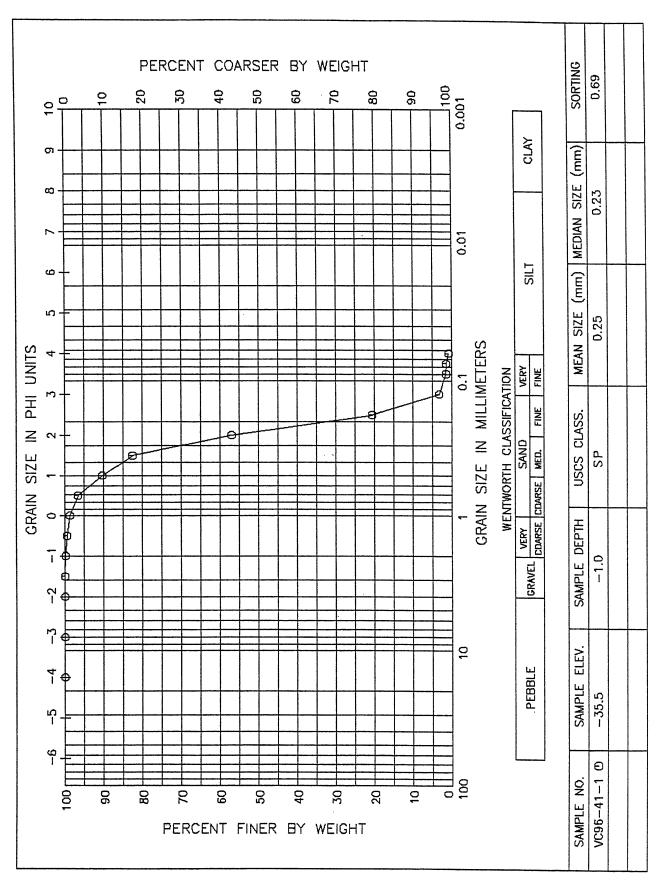
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



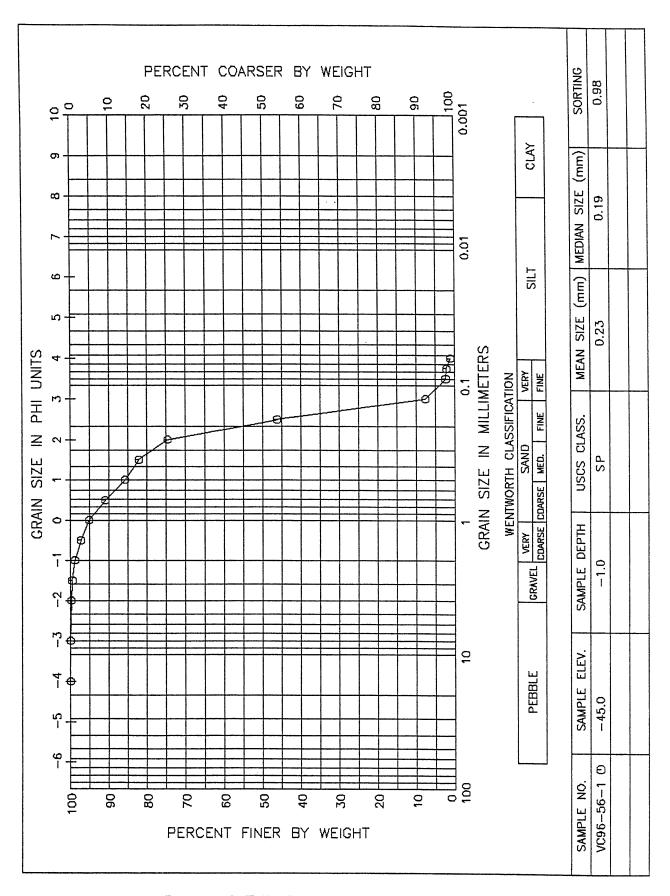
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



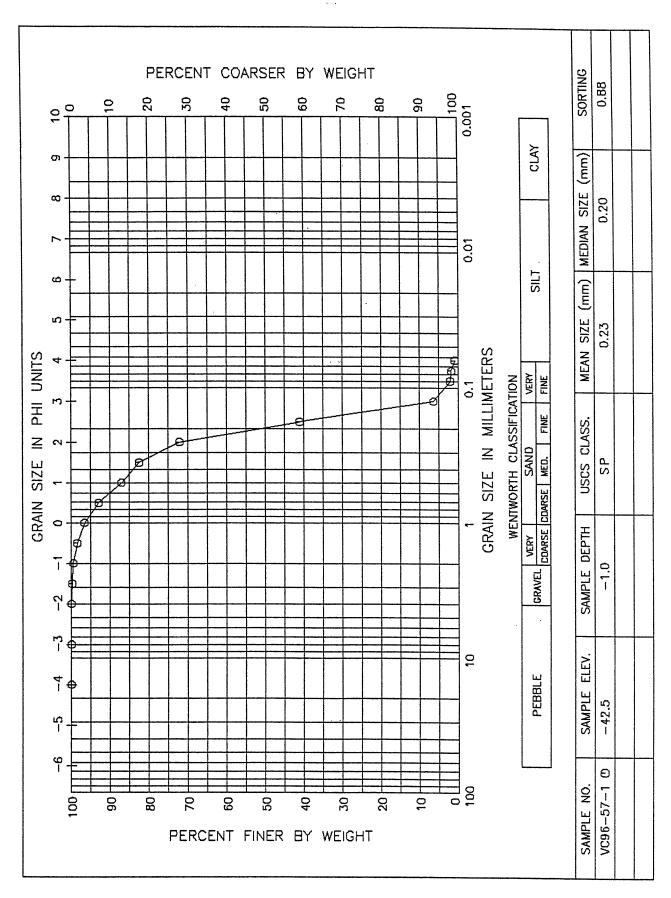
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

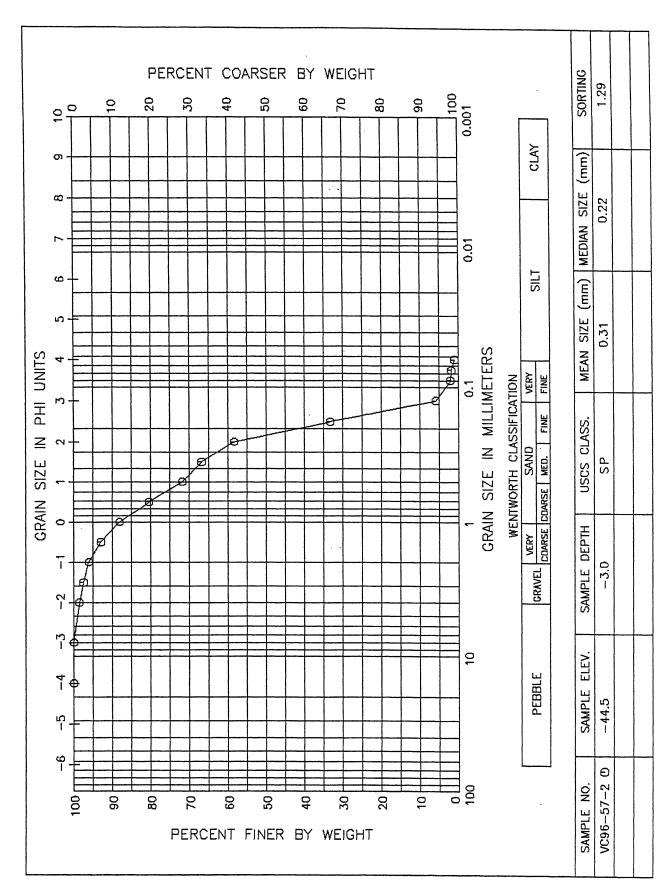


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

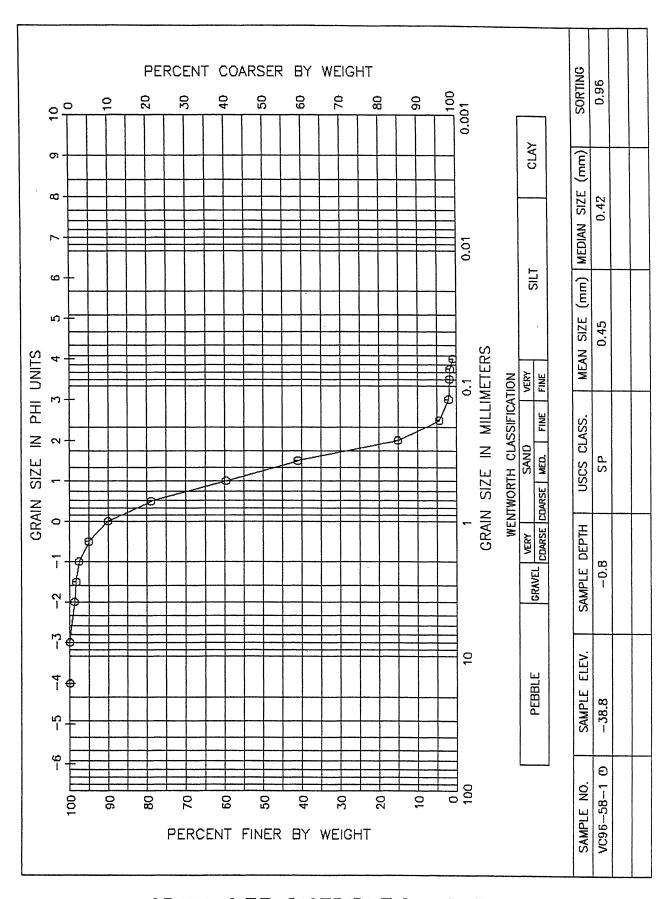


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

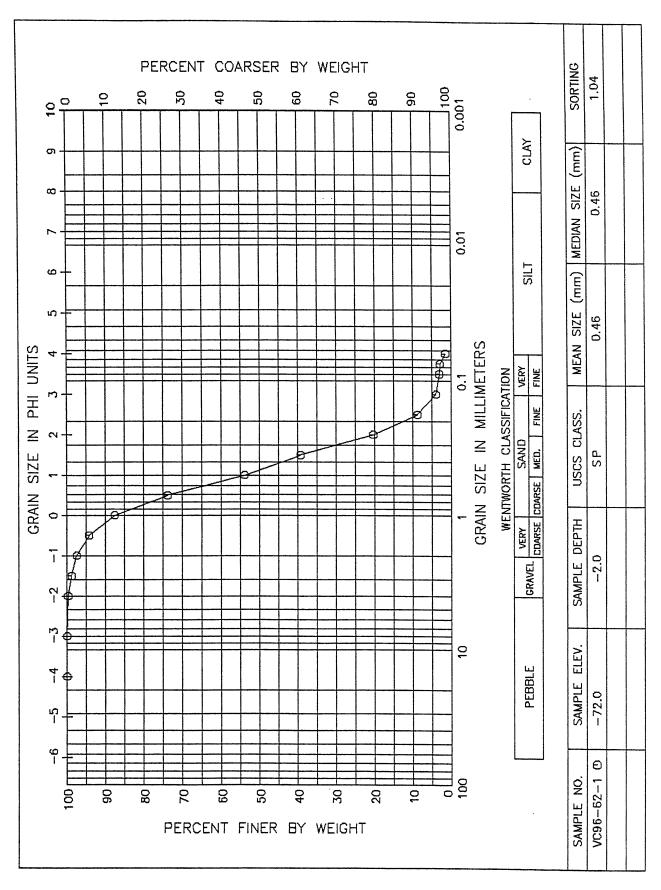




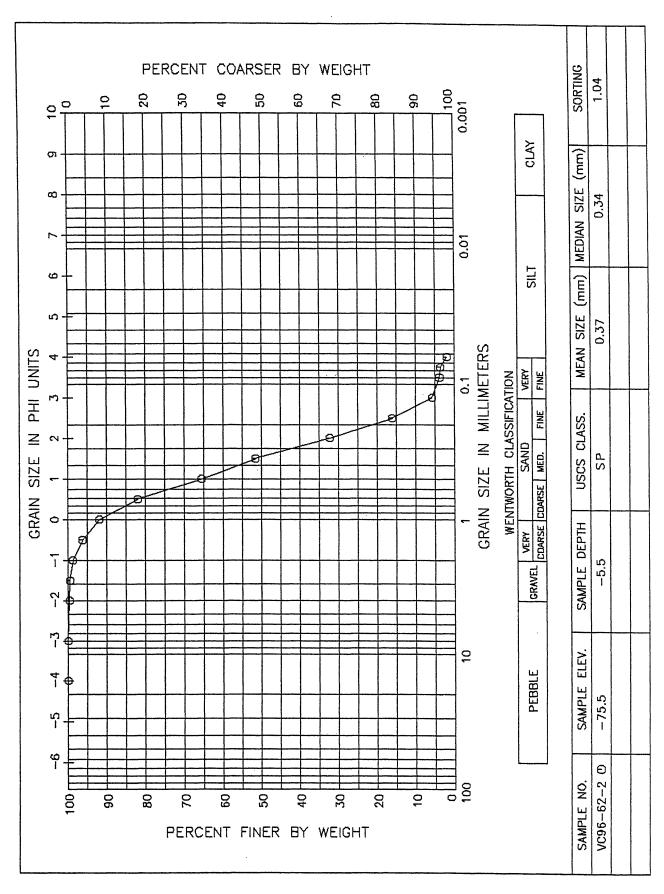
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



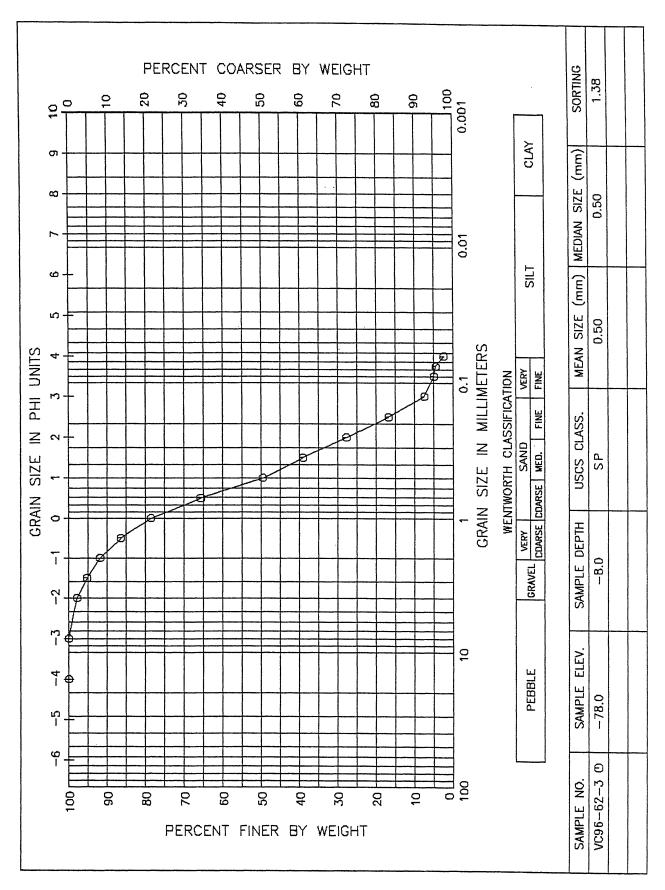
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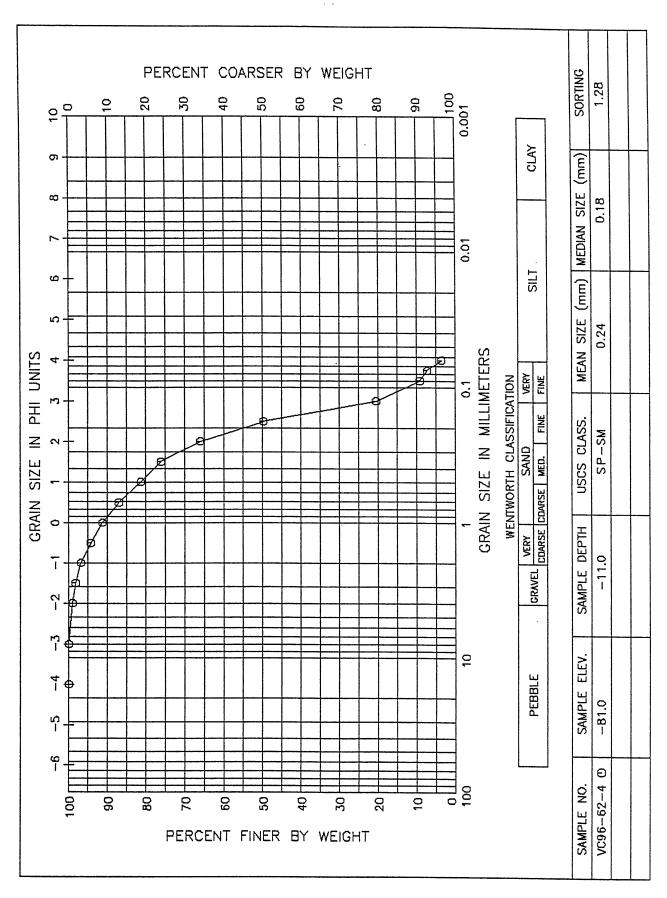
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



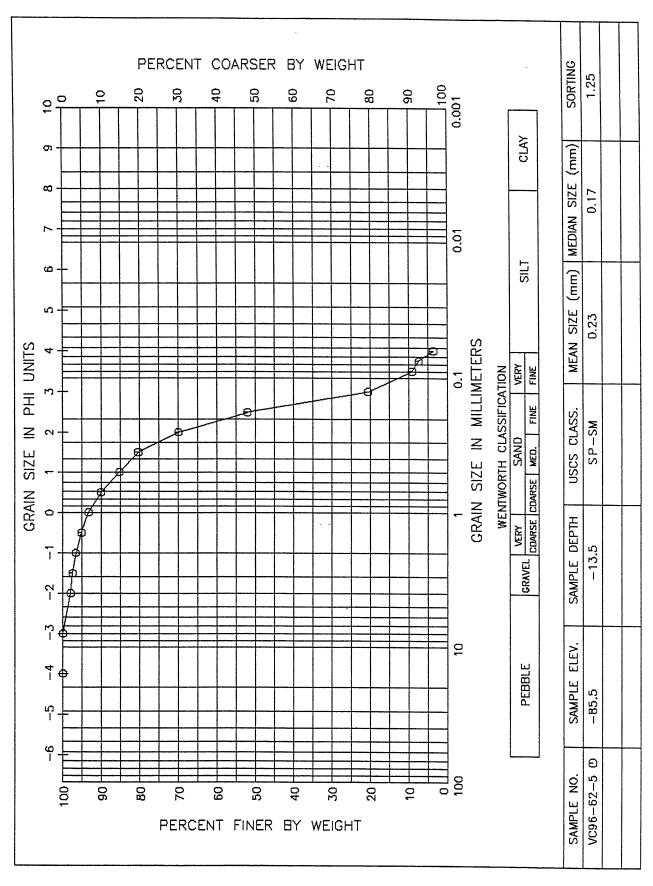
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



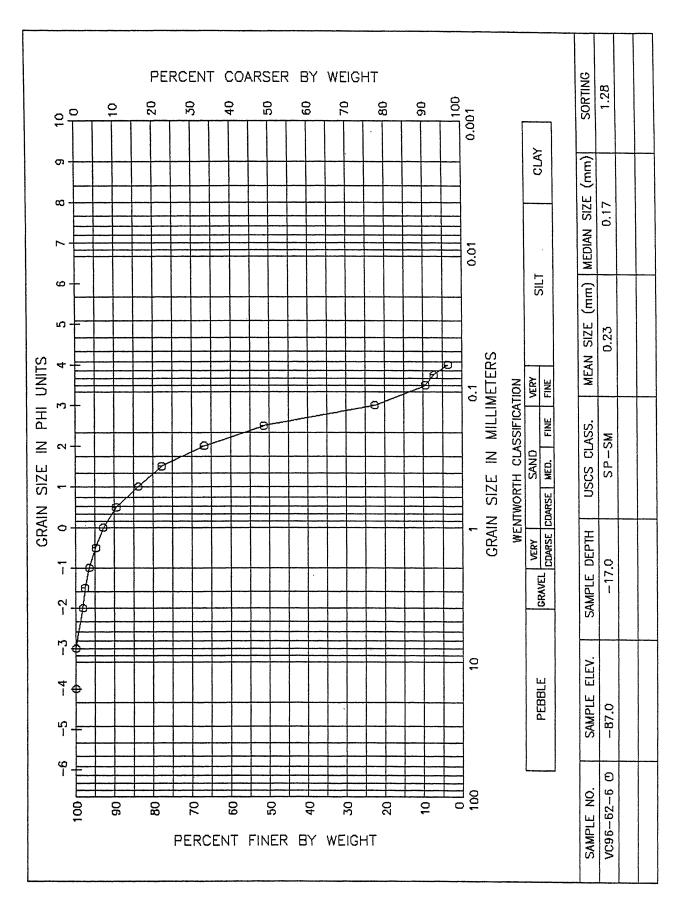
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



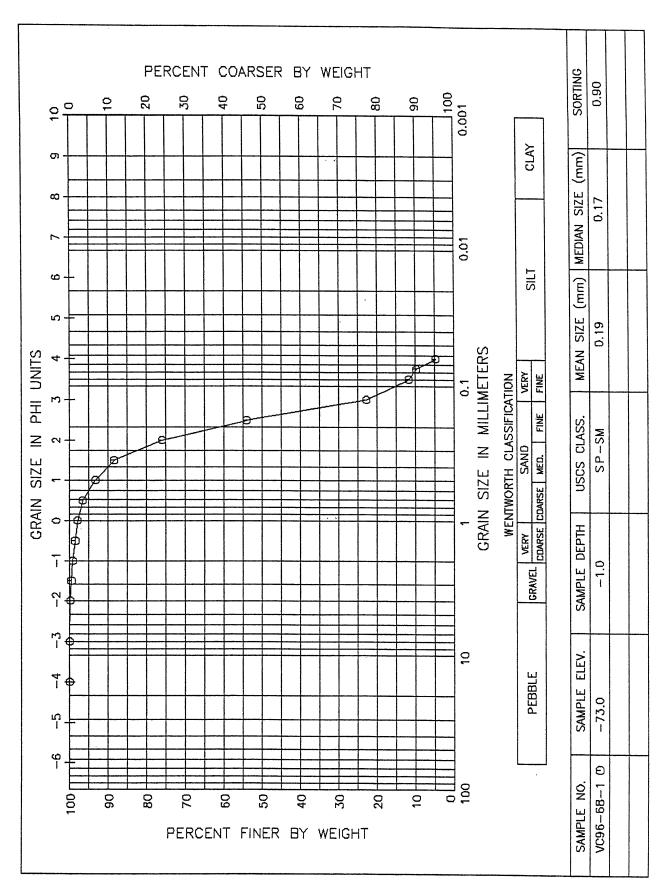
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



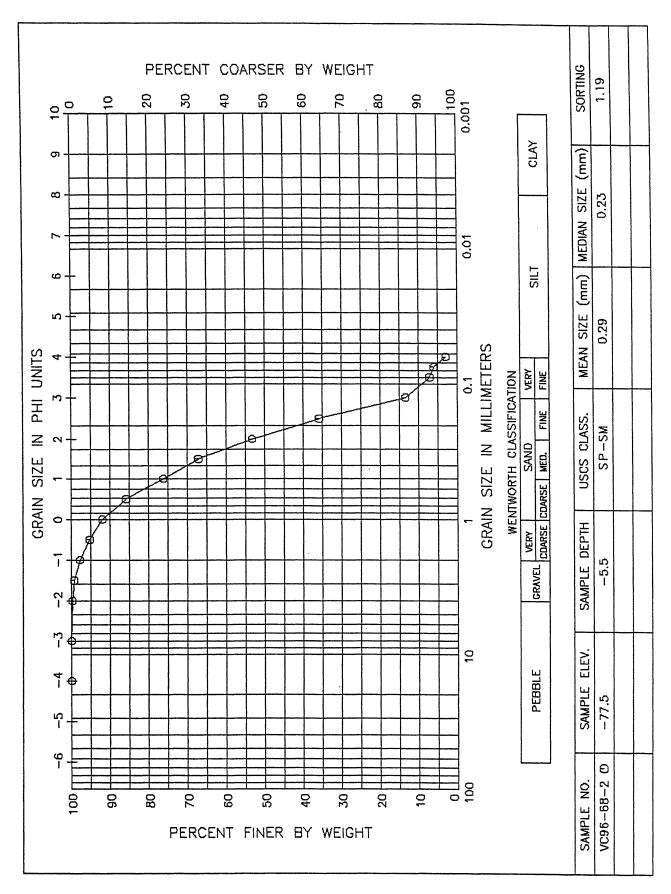
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

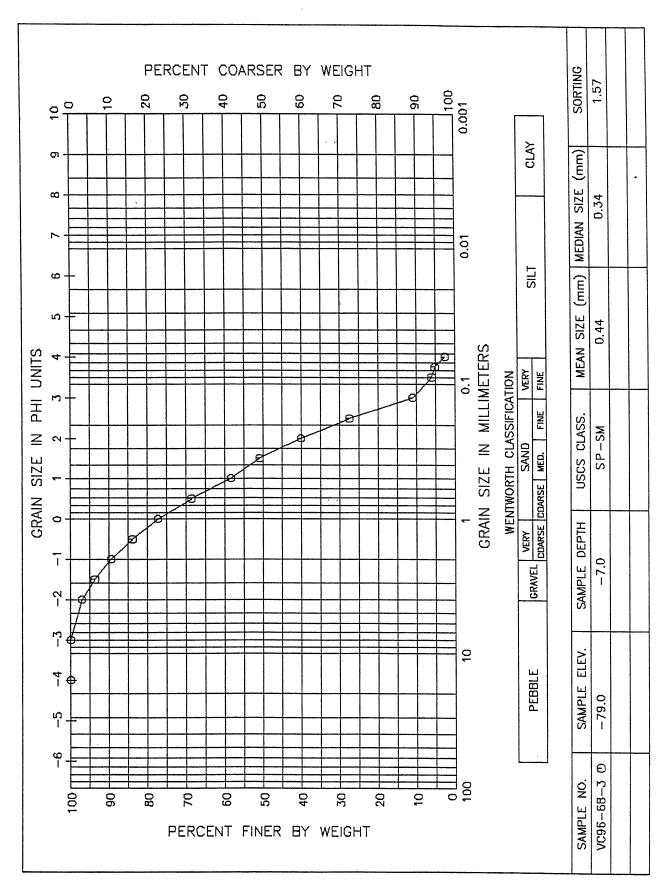


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

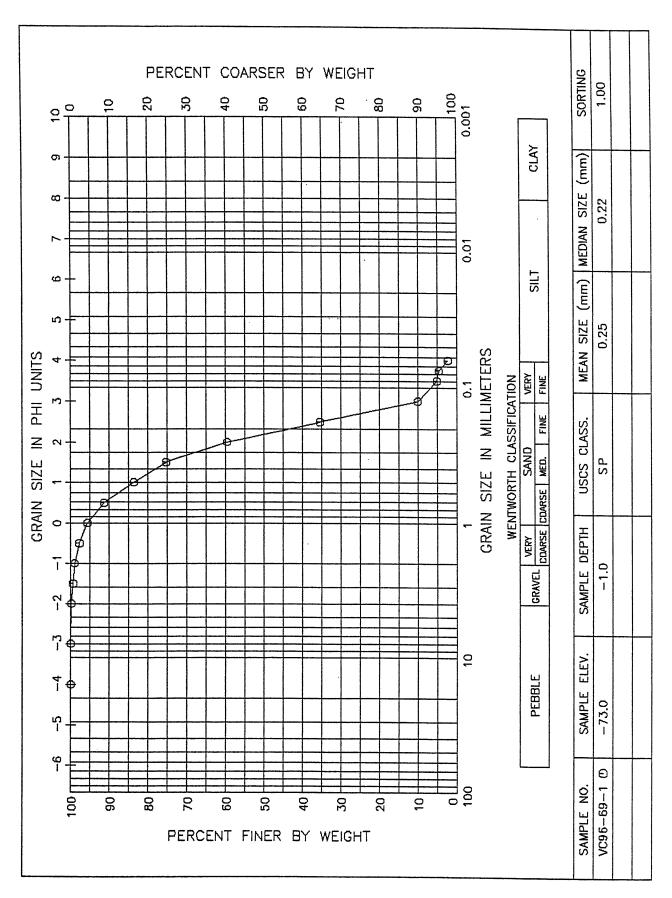


GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

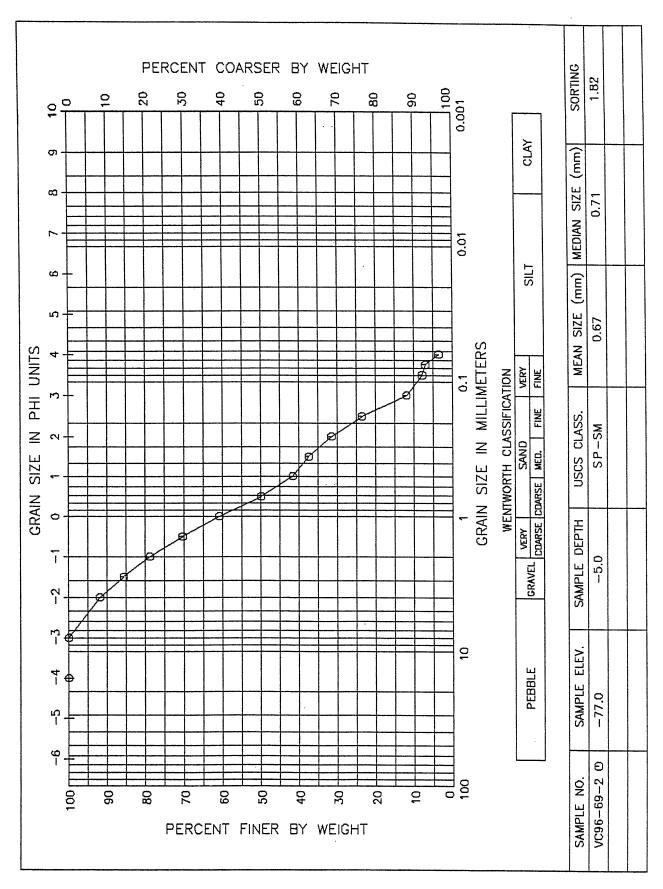




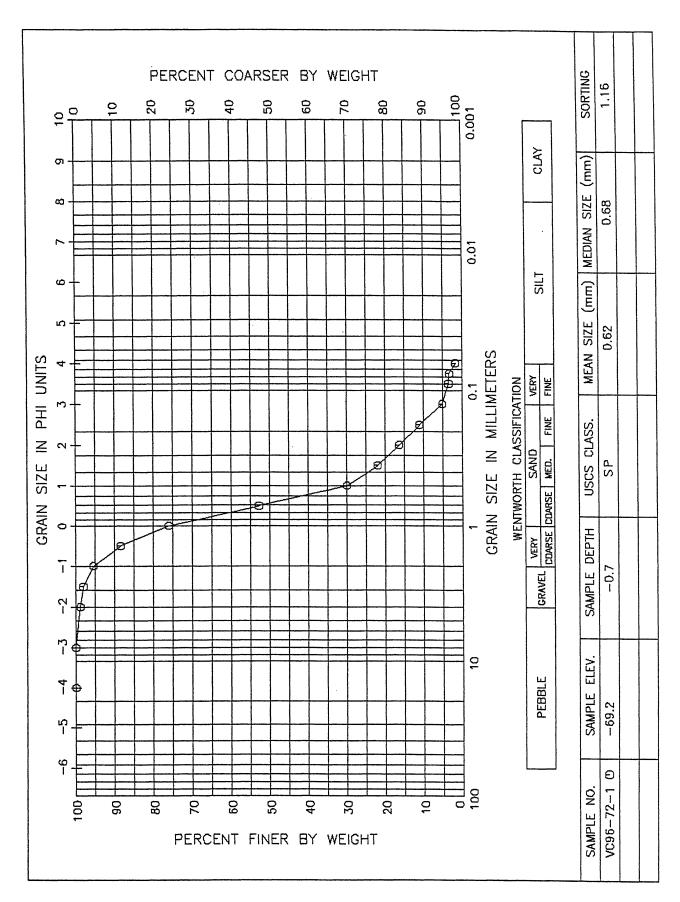
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



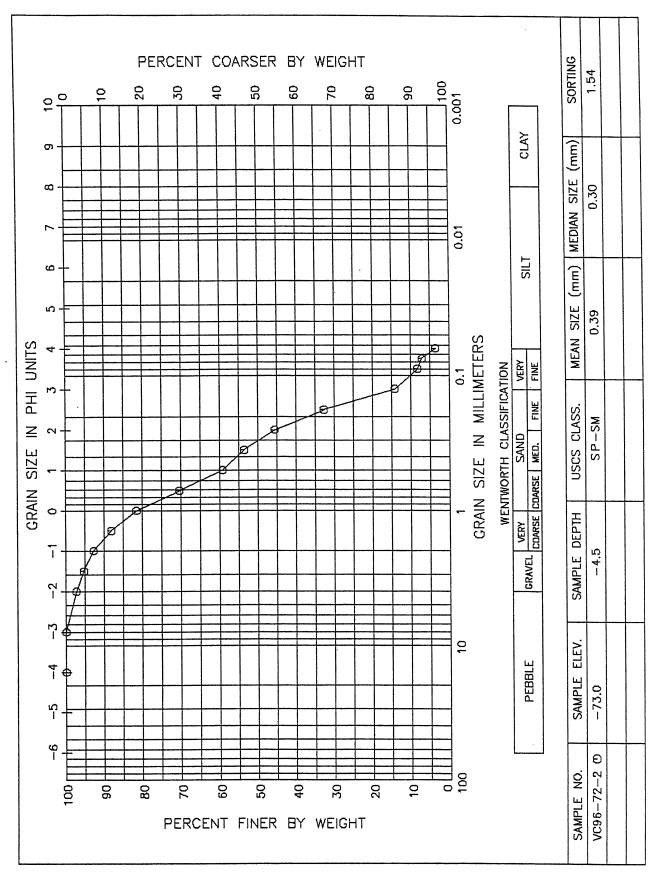
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



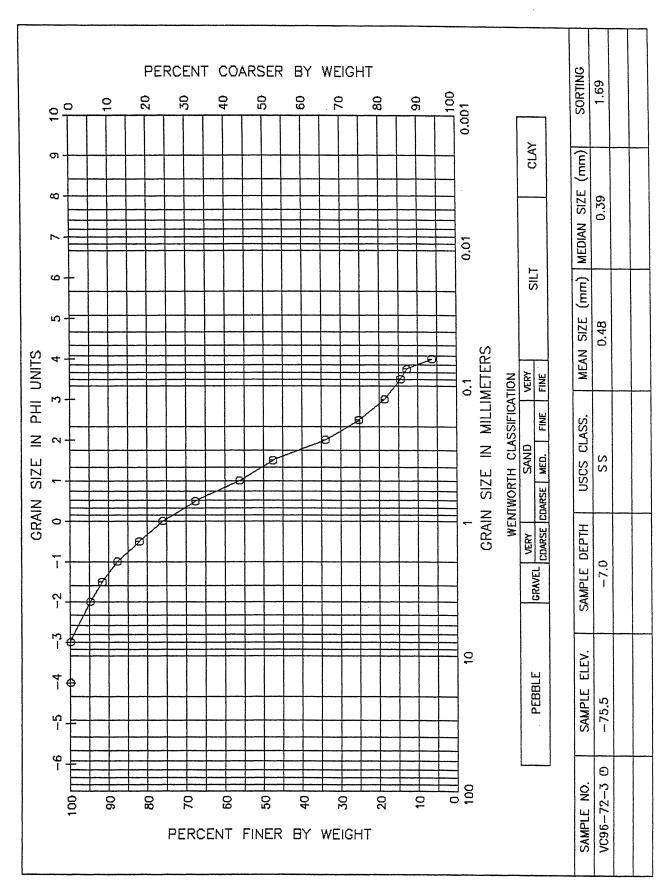
GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96



GRAIN SIZE DISTRIBUTION CURVE BROWARD COUNTY VIBRACORES 10/96

## SUB-APPENDIX E-5 COMPOSITE GRAIN SIZE REPORTS



## CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 22 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - I SEPT. / OCT. 1996

| SAMPLE I. D.                             |                             | MEAN                         | PHI                  | PHI                          | %                    |
|------------------------------------------|-----------------------------|------------------------------|----------------------|------------------------------|----------------------|
|                                          |                             | (mm)                         | MEAN                 | SORTING                      | SILT                 |
| BA - I                                   | COMPOSITE                   | 0.36                         | 1.49                 | 0.92                         | 1.69                 |
| VC96-1                                   | COMPOSITE                   | 0.32                         | 1.65                 | <b>0.92</b>                  | 1.91                 |
| VC96-1                                   | #1                          | 0.38                         | 1.41                 | 0.95                         | 1.60                 |
| VC96-1                                   | #2                          | 0.28                         | 1.84                 | 0.90                         | 1.53                 |
| VC96-1                                   | #3                          | 0.33                         | 1.58                 | 0.91                         | 2.22                 |
| VC96-3                                   | COMPOSITE                   | 0.37                         | 1.43                 | 1.03                         | 1.48                 |
| VC96-3                                   | #1                          | 0.38                         | 1.39                 | 1.06                         | 1.49                 |
| VC96-3                                   | #2                          | 0.34                         | 1.56                 | 0.94                         | 1.47                 |
| <b>VC96-5</b>                            | COMPOSITE                   | 0.33                         | 1.58                 | 0.87                         | <b>1.85</b>          |
| VC96-5                                   | #1                          | 0.30                         | 1.73                 | 0.73                         | 2.11                 |
| VC96-5                                   | #2                          | 0.36                         | 1.46                 | 0.96                         | 1.63                 |
| VC96-42                                  | COMPOSITE                   | 0.33                         | 1.59                 | 0.98                         | 1.72                 |
| VC96-42                                  | #1                          | 0.31                         | 1.71                 | 0.87                         | 1.68                 |
| VC96-42                                  | #2                          | 0.29                         | 1.80                 | 0.81                         | 1.65                 |
| VC96-42                                  | #3                          | 0.40                         | 1.32                 | 1.11                         | 1.81                 |
| VC96-43<br>VC96-43<br>VC96-43<br>VC96-43 | COMPOSITE<br>#1<br>#2<br>#3 | 0.36<br>0.39<br>0.34         | 1.48<br>1.36<br>1.57 | 0.91<br>0.98<br>0.84<br>1.06 | 1.69<br>1.72<br>1.66 |
| VC96-44                                  | COMPOSITE                   | 0.34                         | 1.57                 | 0.64                         | 1.42                 |
| VC96-44                                  | #1                          | 0.30                         | 1.72                 | 0.69                         | 1.64                 |
| VC96-44                                  | #2                          | 0.31                         | 1.68                 | 0.61                         | 1.37                 |
| VC96-44                                  | #3                          | 0.37                         | 1.43                 | 0.59                         | 1.32                 |
| VC96-45                                  | COMPOSITE                   | 0.35                         | 1.53                 | 0.73                         | 1.69                 |
| VC96-45                                  | #1                          | 0.34                         | 1.56                 | 0.81                         | 1.33                 |
| VC96-45                                  | #2                          | 0.38                         | 1.41                 | 0.81                         | 1.55                 |
| VC96-45                                  | #3                          | 0.33                         | 1.60                 | 0.63                         | 1.90                 |
| VC96-46                                  | COMPOSITE                   | 0.45                         | 1.14                 | 1.06                         | 1.96                 |
| VC96-46                                  | #1                          | 0.39                         | 1.37                 | 0.90                         | 2.00                 |
| VC96-46                                  | #2                          | 0.56                         | 0.84                 | 1.17                         | 1.77                 |
| VC96-47<br>VC96-47<br>VC96-47            | COMPOSITE<br>#1<br>#2<br>#3 | 0.37<br>0.42<br>0.36<br>0.45 | 1.42<br>1.26<br>1.46 | 0.92<br>0.94<br>0.92<br>0.89 | 1.52<br>1.12<br>1.63 |

GRADATION ANALYSIS REPORT

BROWARD CO. VIBRACORES BA I 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA I COMP

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

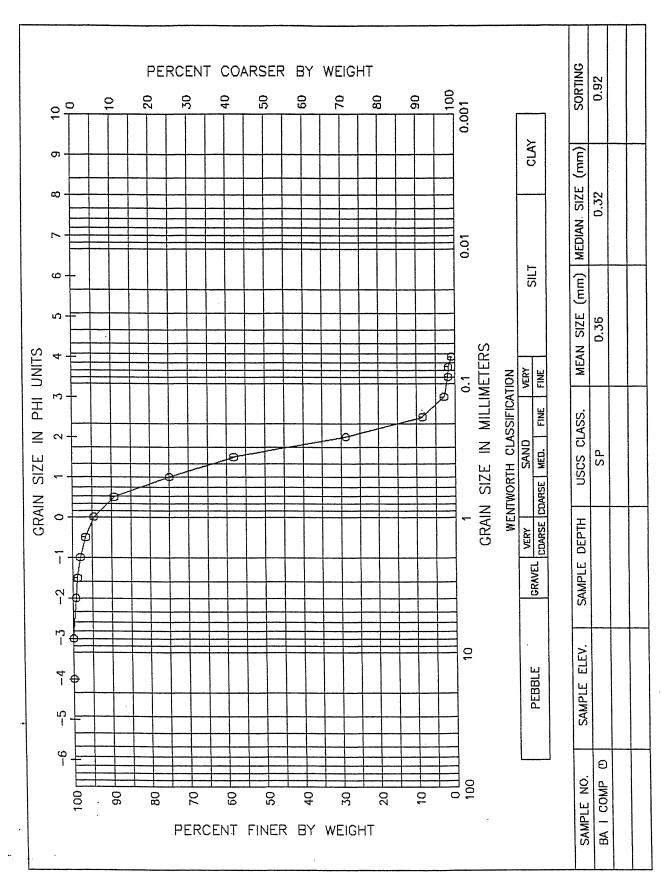
SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

| DRY SAN                                                                                    | MEIGHT                                                                                         | GHT (GRAMS<br>AFTER WASH                                                                                             | ): 100.00<br>(GRAMS):                                                                                                     |                                         |                                                                                                                                   |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                                       | RETAINED<br>(GRAMS)                                                                                                       | RETAINED<br>(%)                         | PASSED<br>(%)                                                                                                                     |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090 | .00<br>.00<br>.75<br>1.19<br>1.96<br>3.28<br>5.40<br>10.62<br>25.02<br>41.82<br>71.23<br>91.57<br>97.18<br>98.26<br>98.31 | 91.57<br>97.18<br>98.26                 | 100.00<br>100.00<br>99.25<br>98.81<br>98.04<br>96.72<br>94.60<br>89.38<br>74.98<br>58.18<br>28.77<br>8.43<br>2.82<br>1.74<br>1.69 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .063                                                                                                                 | 99.13<br>99.94                                                                                                            | 99.13                                   | .87<br>.06                                                                                                                        |
| PHI (50)                                                                                   | :09<br>): 1.64<br>): 2.81                                                                      |                                                                                                                      | 16): .69<br>75): 2.09                                                                                                     |                                         | 5): 1.00                                                                                                                          |
| SIEVE                                                                                      | LOSS(g)<br>SS:                                                                                 | .06<br>348                                                                                                           |                                                                                                                           | SILT/CLAY:<br>KURTOSIS:                 |                                                                                                                                   |
| MEAN (                                                                                     | C METHO<br>PHI): 1<br>mm) :<br>MEAN WA                                                         | .47<br>.36                                                                                                           |                                                                                                                           | SORTING:<br>MEDIAN (mm):<br>POINT METHO | .32                                                                                                                               |
| MEAN (                                                                                     | METHOD<br>PHI): 1<br>mm):                                                                      | .49                                                                                                                  |                                                                                                                           | SORTING                                 | .92                                                                                                                               |
| DATA F                                                                                     | ILE NAM                                                                                        | E: BA-I.TA                                                                                                           | 3                                                                                                                         |                                         |                                                                                                                                   |

DATA FILE NAME: BA-I.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA I 10/96



## CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 35 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - II SEPT. / OCT. 1996

| SAMPLE I. D.                             |                             | MEAN                         | PHI                  | PHI                          | %                    |
|------------------------------------------|-----------------------------|------------------------------|----------------------|------------------------------|----------------------|
|                                          |                             | (mm)                         | MEAN                 | SORTING                      | SILT                 |
| BA - II                                  | COMPOSITE                   | 0.30                         | 1.73                 | 0.79                         | 1.66                 |
| VC96-12                                  | COMPOSITE                   | <b>0.33</b>                  | <b>1.60</b>          | <b>0.85</b>                  | <b>1.69</b>          |
| VC96-12                                  | #1                          | 0.31                         | 1.67                 | 0.77                         | 1.49                 |
| VC96-12                                  | #2                          | 0.35                         | 1.51                 | 0.95                         | 1.95                 |
| VC96-14                                  | COMPOSITE                   | 0.27                         | 1.88                 | 0.71                         | 1.87                 |
| VC96-14                                  | #1                          | 0.26                         | 1.94                 | 0.68                         | 1.87                 |
| VC96-14                                  | #2                          | 0.30                         | 1.74                 | 0.77                         | 1.88                 |
| VC96-17                                  | COMPOSITE                   | <b>0.32</b>                  | 1.63                 | 0.73                         | 1.62                 |
| VC96-17                                  | #1                          | 0.32                         | 1.62                 | 0.75                         | 1.59                 |
| VC96-17                                  | #2                          | 0.32                         | 1.65                 | 0.70                         | 1.67                 |
| VC96-26                                  | COMPOSITE                   | 0.27                         | 1.91                 | 0.74                         | 1.89                 |
| VC96-26                                  | #1                          | 0.25                         | 1.99                 | 0.72                         | 1.84                 |
| VC96-26                                  | #2                          | 0.27                         | 1.90                 | 0.74                         | 1.81                 |
| VC96-26                                  | #3                          | 0.28                         | 1.81                 | 0.75                         | 1.97                 |
| VC96-27                                  | COMPOSITE                   | 0.33                         | 1.60                 | 0.79                         | 1.77                 |
| VC96-27                                  | #1                          | , 0.30                       | 1.74                 | 0.66                         | 1.67                 |
| VC96-27                                  | #2                          | 0.37                         | 1.42                 | 0.91                         | 1.91                 |
| VC96-27                                  | #3                          | 0.31                         | 1.70                 | 0.62                         | 1.85                 |
| VC96-28                                  | COMPOSITE                   | 0.31                         | 1.71                 | 0.72                         | 2.05                 |
| VC96-28                                  | #1                          | 0.32                         | 1.66                 | 0.72                         | 1.85                 |
| VC96-28                                  | #2                          | 0.30                         | 1.75                 | 0.71                         | 2.22                 |
| VC96-29<br>VC96-29<br>VC96-29<br>VG96-29 | COMPOSITE<br>#1<br>#2<br>#3 | 0.33<br>0.35<br>0.32<br>0.37 | 1.59<br>1.52<br>1.64 | 0.73<br>0.78<br>0.69<br>0.79 | 1.99<br>2.23<br>1.78 |
| VC96-30                                  | COMPOSITE                   | 0.30                         | 1.73                 | 0.76                         | 1.46                 |
| VC96-30                                  | #1                          | 0.28                         | 1.84                 | 0.63                         | 1.33                 |
| VC96-30                                  | #2                          | 0.33                         | 1.60                 | 0.88                         | 1.61                 |

## CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 35 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - II SEPT. / OCT. 1996

| SAMPLE I. D.   |           | MEAN        | PHI  | PHI         | %           |
|----------------|-----------|-------------|------|-------------|-------------|
|                |           | (mm)        | MEAN | SORTING     | SILT        |
| VC96-31        | COMPOSITE | <b>0.29</b> | 1.80 | <b>0.85</b> | <b>1.31</b> |
| VC96-31        | #1        | 0.27        | 1.87 | 0.77        | 1.18        |
| VC96-31        | #2        | 0.30        | 1.72 | 0.93        | 1.47        |
| VC96-32        | COMPOSITE | 0.31        | 1.68 | 0.78        | 1.51        |
| VC96-14        | #1        | 0.28        | 1.84 | 0.61        | 1.24        |
| VC96-14        | #2        | 0.34        | 1.55 | 0.87        | 1.62        |
| VC96-14        | #3        | 0.32        | 1.63 | 0.82        | 1.78        |
| VC96-33        | COMPOSITE | <b>0.30</b> | 1.76 | <b>0.78</b> | <b>1.50</b> |
| VC96-33        | #1        | 0.28        | 1.83 | 0.70        | 1.37        |
| VC96-33        | #2        | 0.31        | 1.70 | 0.83        | 1.61        |
| VC96-34        | COMPOSITE | 0.31        | 1.70 | <b>0.98</b> | 1.51        |
| VC96-34        | #1        | 0.30        | 1.74 | 0.91        | 1.59        |
| VC96-34        | #2        | 0.32        | 1.65 | 1.04        | 1.42        |
| <b>VC96-35</b> | COMPOSITE | <b>0.29</b> | 1.80 | <b>0.71</b> | <b>1.66</b> |
| VC96-35        | #1        | 0.28        | 1.83 | 0.65        | 1.53        |
| VC96-35        | #2        | 0.29        | 1.78 | 0.75        | 1.76        |
| VC96-36        | COMPOSITE | 0.32        | 1.67 | 0.85        | <b>1.55</b> |
| VC96-36        | #1        | 0.32        | 1.66 | 0.84        | 1.26        |
| VC96-36        | #2        | 0.32        | 1.66 | 0.85        | 1.67        |
| VC96-36        | #3        | 0.31        | 1.70 | 0.87        | 1.92        |
| VC96-37        | COMPOSITE | <b>0.26</b> | 1.92 | 0.71        | 1.49        |
| VC96-37        | #1        | 0.27        | 1.90 | 0.73        | 1.58        |
| VC96-37        | #2        | 0.26        | 1.95 | 0.69        | 1.41        |
| VC96-39        | COMPOSITE | <b>0.29</b> | 1.77 | <b>0.79</b> | 1.68        |
| VC96-39        | #1        | 0.29        | 1.78 | 0.76        | 1.70        |
| VC96-39        | #2        | 0.29        | 1.76 | 0.77        | 1.67        |

BROWARD CO. VIBRACORES BA II 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA II COMP SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

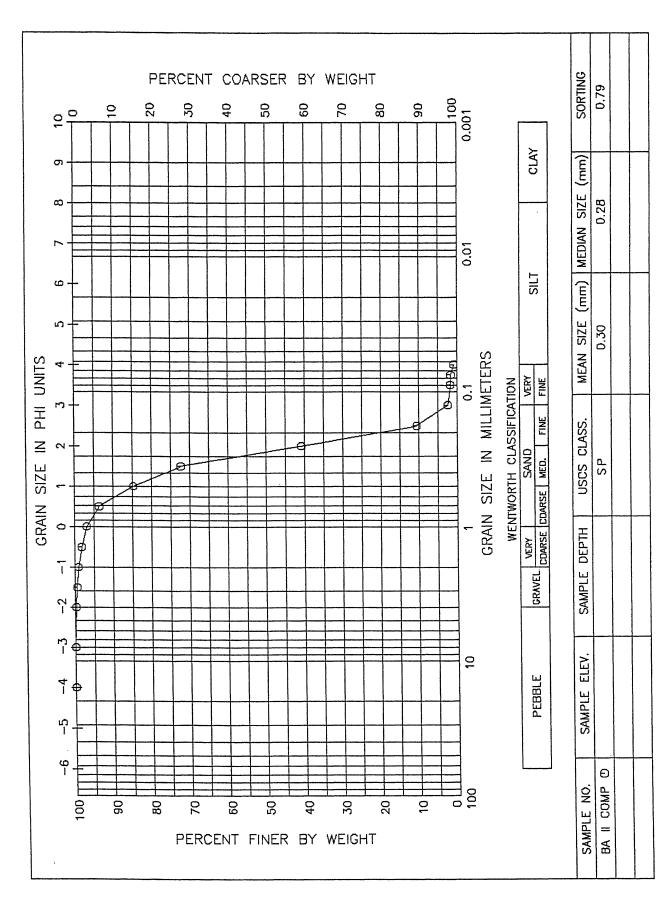
SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

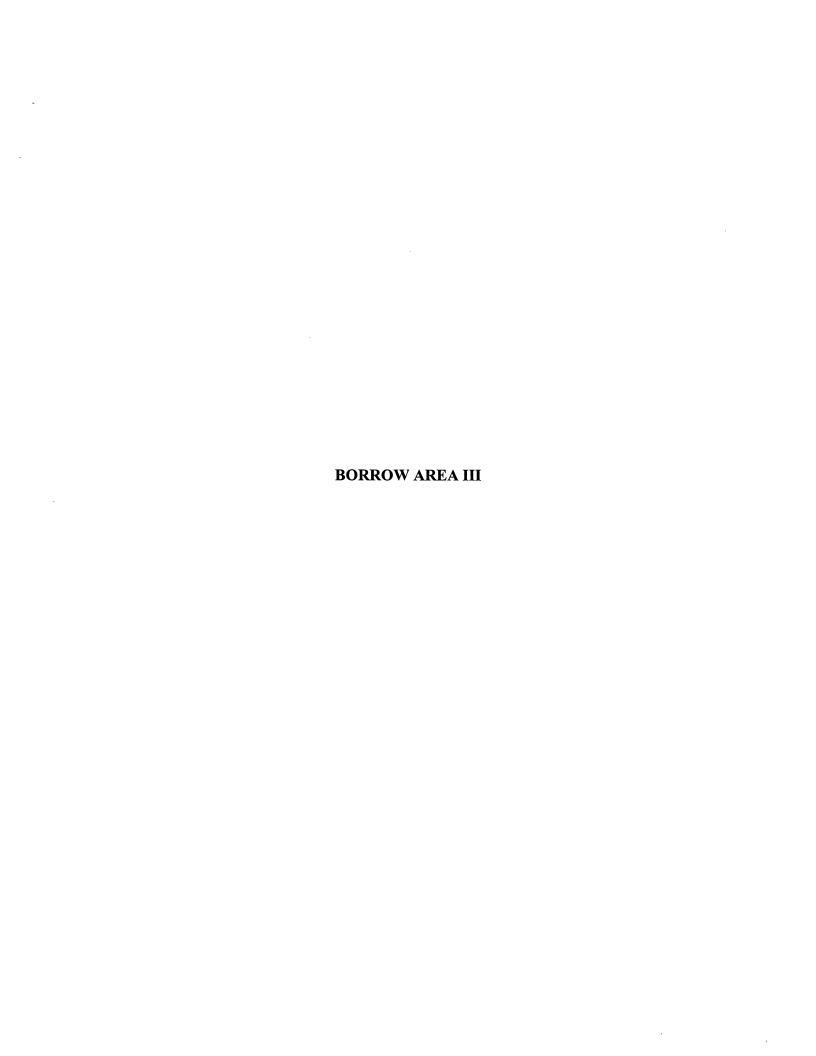
DRY SAMPLE WEIGHT (GRAMS): 100.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE                                                                                                   | WEIGHT                                                                                        | AFTER W              | /ASH                            | (GRAMS)               | ):<br>                                                         | 100.0       | 0                                            |                                       |                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------|---------------------------------|-----------------------|----------------------------------------------------------------|-------------|----------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SI<br>(mm)      | ZE                              | RETAINI<br>(GRAMS     |                                                                | RETAI<br>%) |                                              |                                       | SED<br>%)                                                                                                                          |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | .3<br>.2<br>.1<br>.0 | 000<br>000<br>000<br>000<br>400 | . (                   | 25<br>49<br>71<br>03<br>29<br>63<br>14<br>65<br>62<br>34<br>15 | 1.          | 18<br>63<br>14<br>40<br>65<br>29<br>34<br>15 | 10<br>9<br>9<br>9<br>9<br>9<br>8<br>7 | 0.00<br>0.00<br>9.75<br>9.51<br>9.11<br>8.29<br>6.97<br>3.71<br>4.82<br>2.37<br>0.86<br>0.60<br>2.35<br>1.71<br>1.66<br>.85<br>.06 |
| PHI (50                                                                                                  | : .30<br>): 1.85<br>): 2.84                                                                   |                      |                                 | (6): 1.6<br>(75): 2.5 |                                                                |             | PHI (25<br>PHI (84                           |                                       |                                                                                                                                    |
| SIEVE<br>SKEWNE                                                                                          | LOSS(g)                                                                                       | : .06<br>413         |                                 |                       |                                                                |             | CLAY:                                        |                                       | 66%<br>198                                                                                                                         |
| MEAN (                                                                                                   |                                                                                               |                      | LATEI                           | O USING               |                                                                | DIAN        | RTING:<br>(mm):<br>METHO                     |                                       | .69                                                                                                                                |
| MEAN (                                                                                                   | METHOD<br>PHI): 1                                                                             | .73                  |                                 |                       |                                                                | SO          | RTING:                                       |                                       | .79                                                                                                                                |
| ד מחומכו                                                                                                 | TT TO 31334                                                                                   | T. D. T.             | ~ ~~                            | _                     |                                                                |             |                                              |                                       |                                                                                                                                    |

DATA FILE NAME: BA\_II.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA II 10/96



### CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 17 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - III SEPT. / OCT. 1996

| SAMPLE I. D. |                         | MEAN<br>(mm) | PHI<br>MEAN | PHI<br>SORTING | %<br>SILT |
|--------------|-------------------------|--------------|-------------|----------------|-----------|
| BA - III     | BA - III COMPOSITE 0.41 |              | 1.28        | 1.38           | 4.59      |
| VC96-13      | COMPOSITE               | 0.45         | 1.14        | 1.44           | 5.02      |
| VC96-13      | #1                      | 0.21         | 2.23        | 1.05           | 9.67      |
| VC96-13      | #2                      | 0.75         | 0.41        | 1.30           | 3.11      |
| VC96-13      | #3                      | 0.38         | 1.41        | 1.33           | 4.94      |
| VC96-15      | COMPOSITE               | 0.22         | 2.16        | 0.97           | 4.17      |
| VC96-15      | #1                      | 0.21         | 2.26        | 0.92           | 3.31      |
| VC96-15      | #2                      | 0.24         | 2.04        | 1.02           | 5.23      |
| VC96-16      | COMPOSITE               | 0.35         | 1.53        | 1.32           | 4.08      |
| VC96-16      | #1                      | 0.37         | 1.45        | 1.21           | 3.23      |
| VC96-16      | #2                      | 0.41         | 1.30        | 1.37           | 3.27      |
| VC96-16      | #3                      | 0.24         | 2.04        | 1.18           | 6.56      |
| VC96-48      | COMPOSITE               | 0.48         | 1.06        | 1.32           | 4.24      |
| VC96-48      | #1                      | 0.48         | 1.07        | 1.32           | 4.33      |
| VC96-48      | #2                      | 0.48         | 1.05        | 1.32           | 4.08      |
| VC96-49      | COMPOSITE               | 0.35         | 1.53        | 1.29           | 4.60      |
| VC96-49      | #1                      | 0.33         | 1.62        | 1.31           | 5.46      |
| VC96-49      | #2                      | 0.38         | 1.38        | 1.23           | 3.04      |
| VC96-49      | #3                      | 0.44         | 119         | 1.37           | 4.10      |
| VC96-50      | COMPOSITE               | 0.62         | 0.70        | 1.35           | 6.73      |
| VC96-50      | #1                      | 0.72         | 0.47        | 1.32           | 3.50      |
| VC96-50      | #2                      | 0.48         | 1.05        | 1.35           | 11.31     |
| VC96-50      | #3                      | 0.63         | 0.67        | 1.39           | 7.91      |
| VC96-51      | COMPOSITE               | 0.55         | 0.85        | 1.35           | 3.32      |
| VC96-51      | #1                      | 0.61         | 0.71        | 1.28           | 2.60      |
| VC96-51      | #2                      | 0.50         | 0.99        | 1.41           | 4.03      |

BROWARD CO. VIBRACORES BA III 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA III COMP

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

\_\_\_\_\_

USCS DESCRIPTION: SP

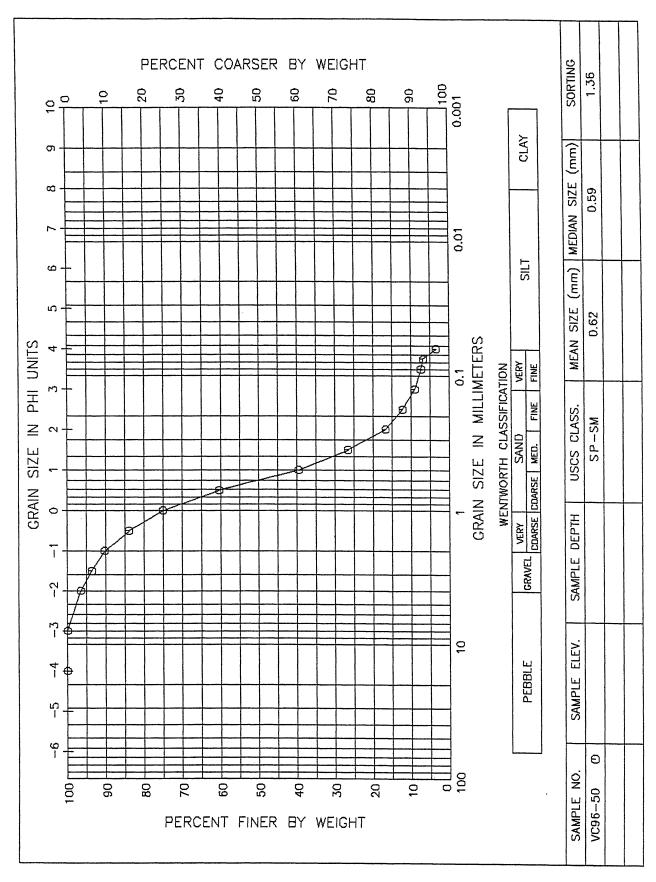
\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 100.00

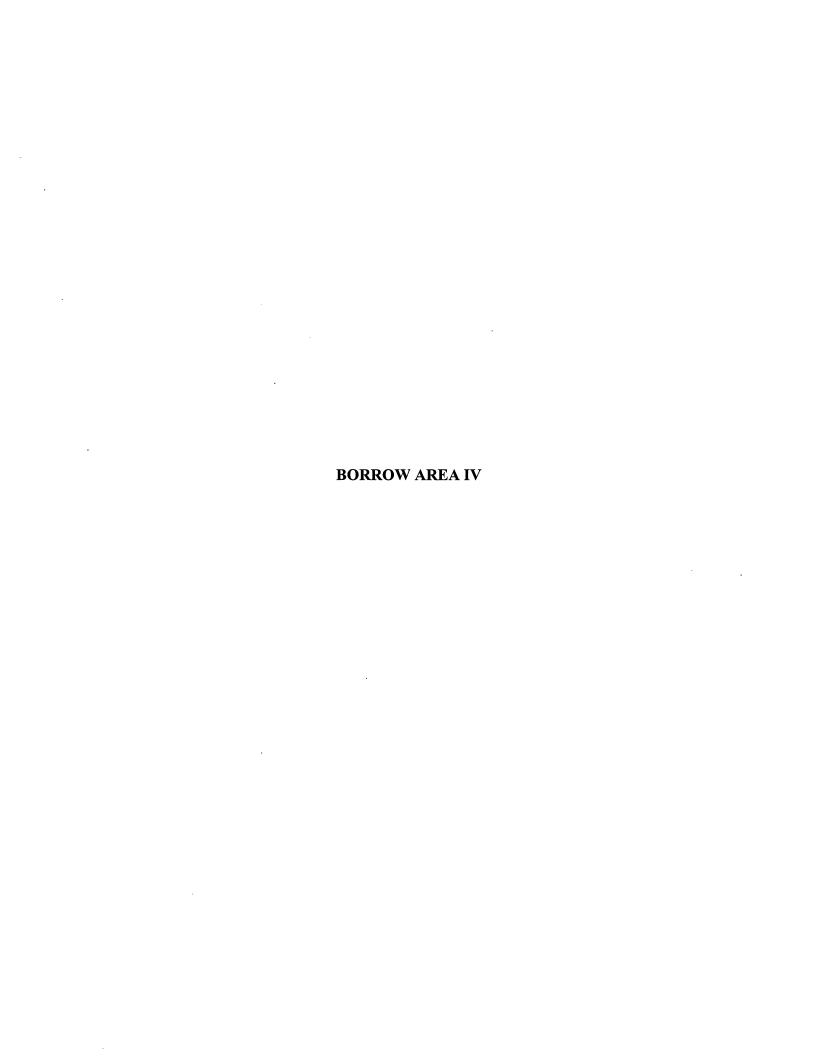
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE        | WEIGHT                                | AFTER WASH      | (GRAMS):            | 100.00                               |                     |
|---------------|---------------------------------------|-----------------|---------------------|--------------------------------------|---------------------|
| SIEVE<br>SIZE | PHI<br>SIZE                           | MESH SIZE (mm)  | RETAINED<br>(GRAMS) | RETAINED<br>(%)                      | PASSED<br>(%)       |
| 5/8<br>5/16   | -4.0<br>-3.0                          | 16.000<br>8.000 | .00                 | .00                                  | 100.00              |
| 5             | -2.0                                  | 4.000           | 2.06                | 2.06                                 | 97.94               |
| 7             | -1.5                                  | 2.800           | 3.83                | 3.83                                 | 96.17               |
| 10            | -1.0                                  | 2.000           | 6.30                | 6.30                                 | 93.70               |
| 14            | -0.5                                  | 1.400           | 10.90               | 10.90                                | 89.10               |
| 18            | 0.0                                   | 1.000           | 16.92               | 16.92                                | 83.08               |
| 25            | 0.5                                   | .710            | 26.25               | 26.25                                | 73.75               |
| 35            | 1.0                                   | .500            | 38.85               | 38.85                                | 61.15               |
| 45            | 1.5                                   | .355            | 48.70               | 48.70                                | 51.30               |
| 60<br>80      | 2.0<br>2.5                            | .250<br>.180    | 63.56<br>78.43      | 63.56<br>78.43                       | 36.44               |
| 120           | 3.0                                   | .125            | 90.96               | 90.96                                | 21.57<br>9.04       |
| 170           | 3.5                                   | .090            | 94.86               | 94.86                                | 5.14                |
| 200           | 3.75                                  | .075            | 95.41               | 95.41                                | 4.59                |
| 230           | 4.0                                   | .063            | 97.70               | 97.70                                | 2.30                |
| PAN           | 1.0                                   |                 | 99.93               | 99.93                                | .07                 |
| PHI (50       | : -1.26<br>): 1.54<br>): 3.56         |                 | 16):08<br>75): 2.38 | PHI (2<br>PHI (8                     | 5): .43<br>4): 2.72 |
| SIEVE SKEWNE  | LOSS(g)<br>SS:                        | .07<br>281      |                     | SILT/CLAY<br>KURTOSIS                |                     |
| MEAN (        | C METHO<br>PHI): 1<br>mm):<br>MEAN WA | .30             |                     | SORTING<br>MEDIAN (mm)<br>POINT METH | : .34               |
| MEAN (        | METHOD<br>PHI): 1<br>mm) :            |                 |                     | SORTING                              | 1.38                |
|               |                                       |                 |                     |                                      |                     |

DATA FILE NAME: BA-III.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA III 10/96



# CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 11 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - IV SEPT. / OCT. 1996

| SAMPLE                                              | l. D.                       | MEAN<br>(mm)                 | PHI<br>MEAN                  | PHI<br>SORTING                       | %<br>SILT                            |
|-----------------------------------------------------|-----------------------------|------------------------------|------------------------------|--------------------------------------|--------------------------------------|
| BA - IV                                             | COMPOSITE                   | 0.32                         | 1.65                         | 0.97                                 | 2.36                                 |
| VC96-19<br>VC96-19<br>VC96-19<br>VC96-19            | COMPOSITE<br>#1<br>#2<br>#3 | 0.30<br>0.28<br>0.34         | 1.72<br>1.82<br>1.56         | 0.00<br>0.90<br>1.05                 | 0.00<br>3.14<br>2.27<br>2.97         |
| VC96-52<br>VC96-52<br>VC96-52                       | COMPOSITE<br>#1<br>#2       | 0.41<br>0.39<br>0.43         | 1.29<br>1.35<br>1.21         | 0.94<br>0.67<br>1.23                 | 2.25<br>2.30<br>2.17                 |
| VC96-53<br>VC96-53<br>VC96-53<br>VC96-53            | COMPOSITE<br>#1<br>#2<br>#3 | 0.31<br>0.30<br>0.33<br>0.31 | 1.67<br>1.75<br>1.61         | 0.86<br>0.77<br>0.93<br>0.83         | 1.97<br>1.66<br>2.24                 |
| VC96-54<br>VC96-54<br>VC96-54<br>VC96-54<br>VC96-54 | COMPOSITE<br>#1<br>#2<br>#3 | 0.29<br>0.55<br>0.26<br>0.25 | 1.78<br>0.87<br>1.92<br>1.99 | 1.02<br>1.26<br>0.88<br>0.83<br>0.98 | 2.51<br>1.77<br>2.68<br>2.65<br>2.88 |
| VC96-55<br>VC96-55<br>VC96-55<br>VC96-55            | COMPOSITE<br>#1<br>#2<br>#3 | 0.30<br>0.26<br>0.33<br>0.38 | 1.76<br>1.93<br>1.60         | 0.97<br>0.80<br>1.06                 | 2.26<br>2.09<br>2.40<br>3.17         |

MOMENT METHOD

BELOW DEPTH OF GUT

BROWARD CO. VIBRACORES BA IV 10/96

TESTED BY: MA ON: FEB. 2, 1997 \_\_\_\_\_\_

SAMPLE NO.: BA IV COMP

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

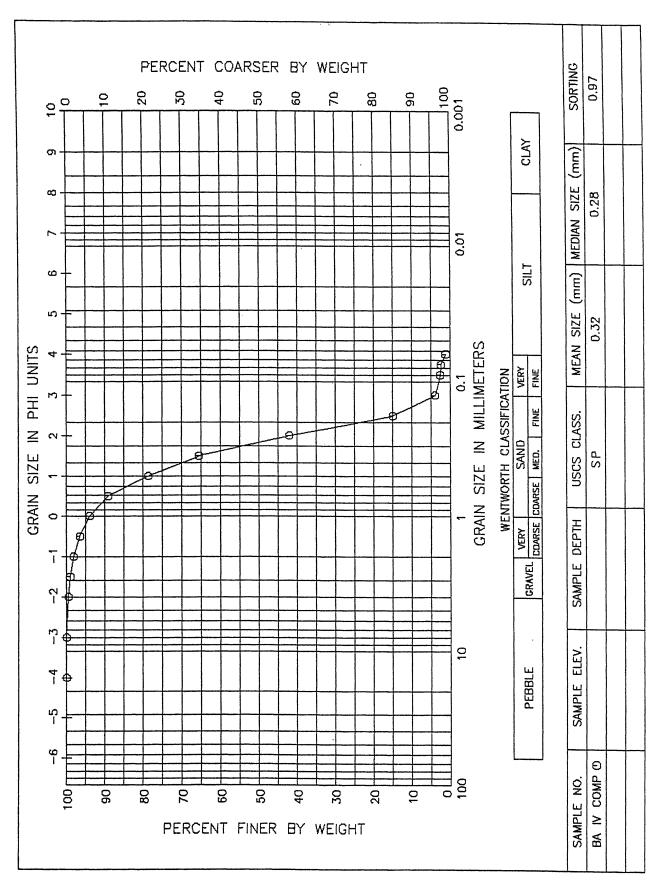
USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

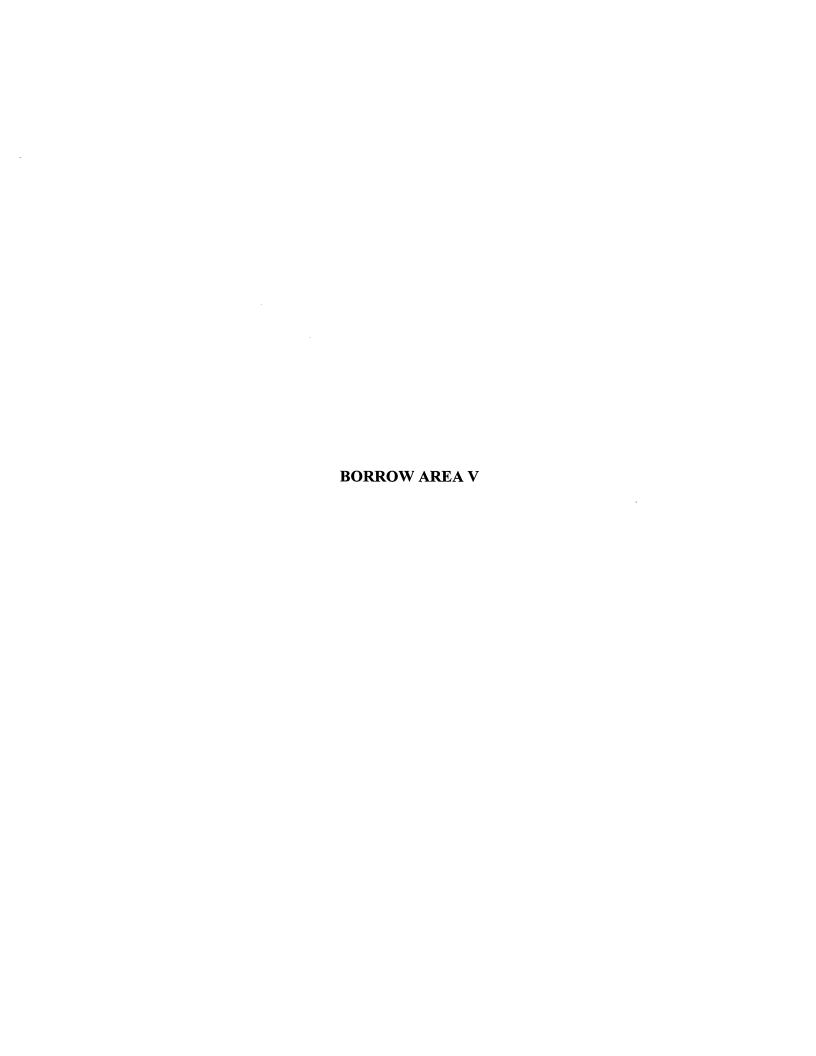
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| DUMETIE                                | WEIGHT      | ATILK WADII    | (GIAMID).           | 100.00                                       |               |
|----------------------------------------|-------------|----------------|---------------------|----------------------------------------------|---------------|
| SIEVE<br>SIZE                          | PHI<br>SIZE | MESH SIZE (mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%)                              | PASSED<br>(%) |
| 5/8                                    | -4.0        | 16.000         | .00                 | .00                                          | 100.00        |
| 5/16                                   | -3.0        | 8.000          | .00                 | .00                                          | 100.00        |
| 5                                      | -2.0        | 4.000          | .48                 | .48                                          | 99.52         |
| 7                                      | -1.5        | 2.800          | .96                 | .96                                          | 99.04         |
| 10                                     | -1.0        | 2.000          | 1.80                | 1.80                                         | 98.20         |
| 14                                     | -0.5        | 1.400          | 3.47                | 3.47                                         | 96.53         |
| 18                                     | 0.0         | 1.000          | 6.00                | 6.00                                         | 94.00         |
| 25                                     | 0.5         | .710           | 10.82               | 10.82                                        | 89.18         |
| 35                                     | 1.0         | .500           | 21.37               | 21.37                                        | 78.63         |
| 45                                     | 1.5         |                | 34.43               | 34.43                                        | 65.57         |
| 60                                     | 2.0         | .250           | 57.97               | 57.97                                        | 42.03         |
| 80                                     | 2.5         | .180           | 85.06               | 85.06                                        | 14.94         |
| 120                                    | 3.0         | .125           | 96.11               | 96.11                                        | 3.89          |
| 170                                    | 3.5         | .090           | 97.46               | 97.46                                        | 2.54          |
| 200                                    | 3.75        | .075           | 97.64               | 97.64                                        | 2.36          |
| 230                                    | 4.0         | .063           | 98.85               | 98.85                                        | 1.15          |
| PAN                                    |             |                | 99.96               | 99.96                                        | .04           |
| PHI (5)                                | :20         | PHI (          | 16): .75            | PHT (25                                      | 5): 1.14      |
|                                        | ): 1.83     |                | 75): 2.31           |                                              | 1): 2.48      |
| PHI (95                                |             |                | ,                   | , and an | ,             |
| SIEVE                                  | LOSS (a)    | : .04          |                     | SILT/CLAY:                                   | 2 369         |
| SKEWNE                                 |             | 524            |                     | KURTOSIS                                     |               |
|                                        |             |                |                     |                                              |               |
| GRAPHI                                 | C METHO     | D              |                     |                                              |               |
|                                        | PHI): 1     |                |                     | SORTING                                      | .87           |
|                                        | mm):        |                | 1                   | MEDIAN (mm)                                  |               |
|                                        |             |                |                     | POINT METHO                                  |               |
| MOMENT                                 |             |                |                     |                                              |               |
|                                        | METHOD      |                |                     | 700mm::-                                     |               |
|                                        | PHI): 1     |                |                     | SORTING                                      | .97           |
| MEAN (1                                | mm) :       | . 32           |                     |                                              |               |
| בייייייייייייייייייייייייייייייייייייי | <br>TTE NAM | T. DA TT/ MA   | D                   |                                              |               |

DATA FILE NAME: BA\_IV.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA IV 10/96



## CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 9 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - V SEPT. / OCT. 1996

| SAMPLE I. D.                             |                             | MEAN                                | PHI                        | PHI                                 | %                           |
|------------------------------------------|-----------------------------|-------------------------------------|----------------------------|-------------------------------------|-----------------------------|
|                                          |                             | (mm)                                | MEAN                       | SORTING                             | SILT                        |
| BA - V                                   | COMPOSITE                   | 0.25                                | 1.98                       | 1.41                                | 6.85                        |
| VC96-23                                  | COMPOSITE                   | <b>0.35</b>                         | <b>1.50</b> 2.34 0.85 1.76 | <b>1.61</b>                         | <b>6.06</b>                 |
| VC96-23                                  | #1                          | 0.20                                |                            | 1.00                                | 7.51                        |
| VC96-23                                  | #2                          | 0.55                                |                            | 1.69                                | 4.19                        |
| VC96-23                                  | #3                          | 0.30                                |                            | 1.51                                | 8.01                        |
| VC96-70<br>VC96-70<br>VC96-70<br>VC96-70 | COMPOSITE<br>#1<br>#2<br>#3 | <b>0.22</b><br>0.20<br>0.19<br>0.27 | <b>2.16</b> 2.35 2.40 1.88 | <b>1.24</b><br>0.97<br>0.79<br>1.56 | <b>7.11</b> 6.56 4.61 9.20  |
| VC96-71                                  | COMPOSITE                   | <b>0.21</b>                         | 2.27                       | 1.20                                | <b>7.37</b> 4.36 5.36 14.23 |
| VC96-71                                  | #1                          | 0.19                                | 2.40                       | 0.80                                |                             |
| VC96-71                                  | #2                          | 0.23                                | 2.14                       | 1.31                                |                             |
| VC96-71                                  | #3                          | 0.19                                | 2.36                       | 1.31                                |                             |

MOMENT METHOD

BROWARD CO. VIBRACORES BA V 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA V COMP

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

\_\_\_\_\_\_

USCS DESCRIPTION: SP-SM

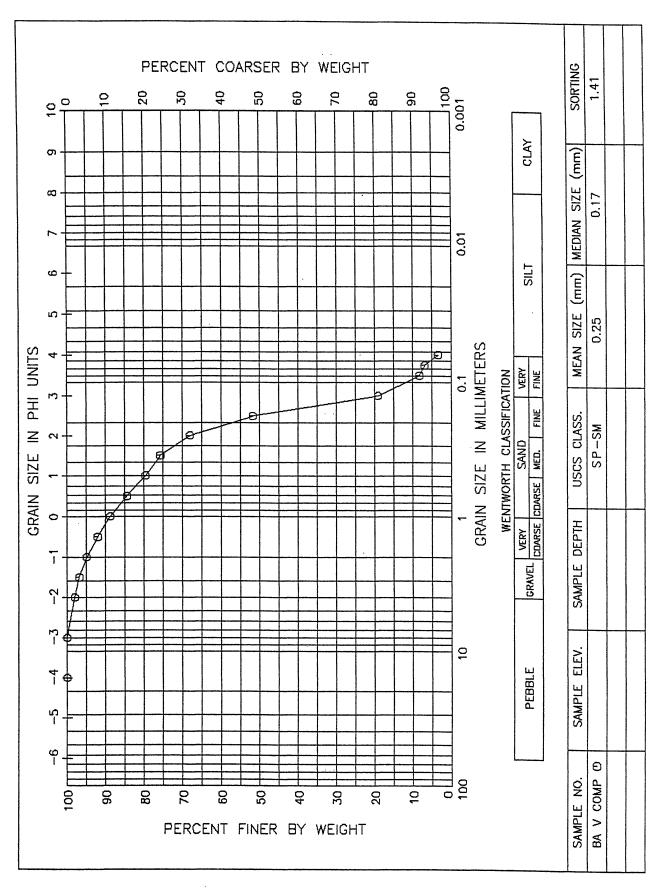
\_\_\_\_\_\_

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SAMPLE                                                                                     | WEIGHI                                                                                         | AFIER WASH                                                                                                   | (GRAMS):                                                                                                           | 100.00                                                                                                             |                                                                                                                             |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                              | PHI<br>SIZE                                                                                    | MESH SIZE (mm)                                                                                               | RETAINED<br>(GRAMS)                                                                                                | RETAINED (%)                                                                                                       | PASSED<br>(%)                                                                                                               |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>3.75 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125 | .00<br>.00<br>1.98<br>3.19<br>5.06<br>7.94<br>11.18<br>15.54<br>20.43<br>24.29<br>31.94<br>48.19<br>80.94<br>91.74 | .00<br>.00<br>1.98<br>3.19<br>5.06<br>7.94<br>11.18<br>15.54<br>20.43<br>24.29<br>31.94<br>48.19<br>80.94<br>91.74 | 100.00<br>100.00<br>98.02<br>96.81<br>94.94<br>92.06<br>88.82<br>84.46<br>79.57<br>75.71<br>68.06<br>51.81<br>19.06<br>8.26 |
| 230<br>PAN                                                                                 | 4.0                                                                                            | .075<br>.063                                                                                                 | 93.15<br>96.64<br>99.90                                                                                            | 93.15<br>96.64<br>99.90                                                                                            | 6.85<br>3.36<br>.10                                                                                                         |
| PHI (50)                                                                                   | : -1.02<br>): 2.53<br>): 3.88                                                                  |                                                                                                              | 16): .55<br>75): 2.91                                                                                              |                                                                                                                    | 5): 1.55<br>4): 3.14                                                                                                        |
|                                                                                            | LOSS(g)<br>SS:                                                                                 |                                                                                                              |                                                                                                                    | SILT/CLAY<br>KURTOSIS                                                                                              |                                                                                                                             |
| MEAN (1                                                                                    | C METHOPHI): 1 mm): MEAN WAS                                                                   | .82                                                                                                          |                                                                                                                    | SORTING<br>IEDIAN (mm)<br>POINT METHO                                                                              | : .17                                                                                                                       |
| MEAN (                                                                                     | METHOD<br>PHI): 1<br>mm) :                                                                     |                                                                                                              |                                                                                                                    | SORTING                                                                                                            | : 1.41                                                                                                                      |
|                                                                                            |                                                                                                |                                                                                                              |                                                                                                                    |                                                                                                                    |                                                                                                                             |

DATA FILE NAME: BA\_V.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA V 10/96



# CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 7 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - VI SEPT. / OCT. 1996

| SAMPLE         | SAMPLE I. D. |             | PHI<br>MEAN | PHI<br>SORTING | %<br>SILT             |
|----------------|--------------|-------------|-------------|----------------|-----------------------|
| BA - VI        | COMPOSITE    | 0.41        | 1.28        | 0.90           | 2.62                  |
| VC96-24        | COMPOSITE    | <b>0.41</b> | 1.27        | 0.86           | 1.80                  |
| VC96-24        | #1           | 0.46        | 1.12        | 0.84           | 2.02                  |
| VC96-24        | #2           | 0.43        | 1.21        | 0.87           | 1.86                  |
| VC96-24        | #3           | 0.35        | 1.50        | 0.79           | 1.49                  |
| <b>VC96-59</b> | COMPOSITE    | <b>0.43</b> | <b>1.21</b> | <b>0.95</b>    | <b>2.96</b> 2.24 3.89 |
| VC96-59        | #1           | 0.40        | 1.31        | 0.89           |                       |
| VC96-59        | #2           | 0.48        | 1.06        | 1.01           |                       |
| <b>VC96-60</b> | COMPOSITE    | <b>0.38</b> | <b>1.38</b> | <b>0.89</b>    | <b>3.11</b>           |
| VC96-60        | #1           | 0.35        | 1.51        | 0.85           | 3.12                  |
| VC96-60        | #2           | 0.49        | 1.02        | 0.89           | 3.09                  |

MOMENT METHOD

BROWARD CO. VIBRACORES BA VI 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA VI COMP

SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

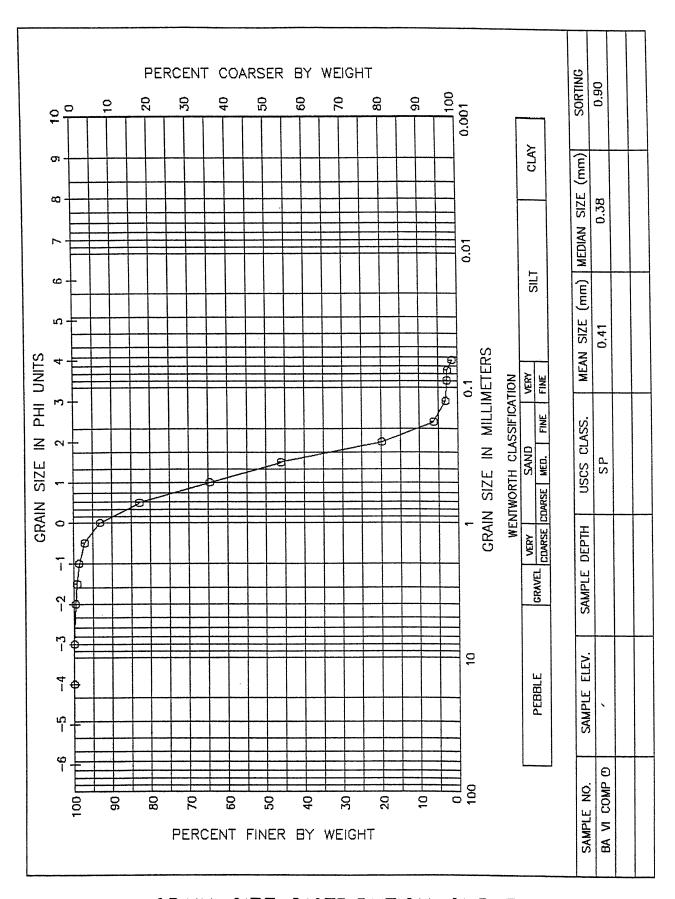
SAMPLE TYPE: COMPOSITE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

|                                                                                                          |                                                                                               | GHT (GRAMS<br>AFTER WASH                                                                                                             |                                                                                                                                            |                                      |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SIEVE<br>SIZE                                                                                            | PHI<br>SIZE                                                                                   | MESH SIZE (mm)                                                                                                                       | RETAINED<br>(GRAMS)                                                                                                                        | RETAINED<br>(%)                      | PASSED<br>(%)                                                                                                                             |
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35<br>45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5<br>1.0<br>2.5<br>3.0<br>3.5<br>4.0 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710<br>.500<br>.355<br>.250<br>.180<br>.125<br>.090<br>.075<br>.063 | .00<br>.00<br>.41<br>.79<br>1.39<br>2.84<br>6.85<br>17.13<br>35.40<br>53.86<br>80.19<br>93.72<br>96.89<br>97.31<br>97.38<br>98.64<br>99.89 |                                      | 100.00<br>100.00<br>99.59<br>99.21<br>98.61<br>97.16<br>93.15<br>82.87<br>64.60<br>46.14<br>19.81<br>6.28<br>3.11<br>2.69<br>2.62<br>1.36 |
| PHI (50)                                                                                                 | :23<br>): 1.40<br>): 2.70                                                                     |                                                                                                                                      | 16): .45<br>75): 1.90                                                                                                                      |                                      | 5): .72<br>4): 2.14                                                                                                                       |
| SIEVE I                                                                                                  |                                                                                               | : .11<br>189                                                                                                                         |                                                                                                                                            | SILT/CLAY<br>KURTOSIS                |                                                                                                                                           |
| MEAN (1                                                                                                  | C METHO<br>PHI): 1<br>mm) :<br>MEAN WA                                                        | .29<br>.41                                                                                                                           | M<br>D USING 5                                                                                                                             | SORTING<br>IEDIAN (mm)<br>POINT METH | .38                                                                                                                                       |
| MEAN (                                                                                                   | METHOD<br>PHI): 1<br>mm) :                                                                    |                                                                                                                                      |                                                                                                                                            | SORTING                              | .90                                                                                                                                       |
| 12 M 2 M 2 M 2                                                                                           | TT TO 37336                                                                                   | מה דוד מים הים                                                                                                                       | T                                                                                                                                          |                                      |                                                                                                                                           |

DATA FILE NAME: BA-VI.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA VI 10/96



### CUMULATIVE PERCENTS AND COMPUTED COMPOSITE DISTRIBUTION FOR 18 SAMPLES FROM BROWARD COUNTY BORROW AREA BA - VII SEPT. / OCT. 1996

| SAMPLE                                   | I. D.                       | MEAN<br>(mm)                    | PHI<br>MEAN          | PHI<br>SORTING       | %<br>SILT             |
|------------------------------------------|-----------------------------|---------------------------------|----------------------|----------------------|-----------------------|
| BA - VII                                 | COMPOSITE                   | 0.42                            | 1.24                 | 1.30                 | 3.34                  |
| VC96-25                                  | COMPOSITE                   | 0.30                            | 1.74                 | 1.04                 | 3.81                  |
| VC96-25                                  | #1                          | 0.36                            | 1.49                 | 1.03                 | 2.25                  |
| VC96-25                                  | #2                          | 0.32                            | 1.63                 | 0.90                 | 3.13                  |
| VC96-25                                  | #3                          | 0.23                            | 2.12                 | 1.09                 | 6.16                  |
| <b>VC96-61</b>                           | COMPOSITE                   | <b>0.70</b>                     | <b>0.51</b>          | <b>1.20</b>          | 3.05                  |
| VC96-61                                  | #1                          | 0.71                            | 0.50                 | 1.22                 | 2.59                  |
| VC96-61                                  | #2                          | 0.69                            | 0.53                 | 1.18                 | 3.51                  |
| VC96-63                                  | COMPOSITE                   | 0.44                            | 1.20                 | <b>0.98</b>          | <b>2.76</b>           |
| VC96-63                                  | #1                          | 0.45                            | 1.15                 | 0.97                 | 2.98                  |
| VC96-63                                  | #2                          | 0.40                            | 1.34                 | 0.94                 | 3.05                  |
| VC96-63                                  | #3                          | 0.53                            | 0.91                 | 1.04                 | 1.61                  |
| VC96-64                                  | COMPOSITE                   | <b>0.57</b>                     | 0.81                 | 1.28                 | 2.09                  |
| VC96-64                                  | #1                          | 0.49                            | 1.02                 | 1.11                 | 2.12                  |
| VC96-64                                  | #2                          | 0.63                            | 0.66                 | 1.37                 | 2.06                  |
| VC96-64                                  | #3                          | 0.57                            | 0.81                 | 1.28                 | 2.06                  |
| VC96-65                                  | COMPOSITE                   | <b>0.49</b>                     | 1.03                 | <b>1.60</b>          | <b>2.34</b>           |
| VC96-65                                  | #1                          | 0.25                            | 2.00                 | 0.78                 | 2.72                  |
| VC96-65                                  | #2                          | 0.62                            | 0.70                 | 1.65                 | 2.35                  |
| VC96-65                                  | #3                          | 0.75                            | 0.41                 | 1.71                 | 1.97                  |
| VC96-66<br>VC96-66<br>VC96-66<br>VC96-66 | COMPOSITE<br>#1<br>#2<br>#3 | 0.32<br>0.32<br>0.35<br>30 0.31 | 1.65<br>1.66<br>1.53 | 0.92<br>0.80<br>1.77 | 3.34<br>2.72<br>10.11 |
| VC96-67<br>VC96-67<br>VC96-67            | COMPOSITE<br>#1<br>#2<br>#3 | 0.26<br>0.24<br>0.27<br>0.28    | 1.95<br>2.03<br>1.90 | 1.20<br>0.93<br>1.33 | 5.97<br>4.96<br>6.57  |

BROWARD CO. VIBRACORES BA VII 10/96

TESTED BY: MA ON: FEB. 2, 1997

SAMPLE NO.: BA VII COMP SAMPLE ELEV. (FT. NGVD):

SAMPLE DEPTH (FT.):

SAMPLE TYPE: COMPOSITE SAMPLE

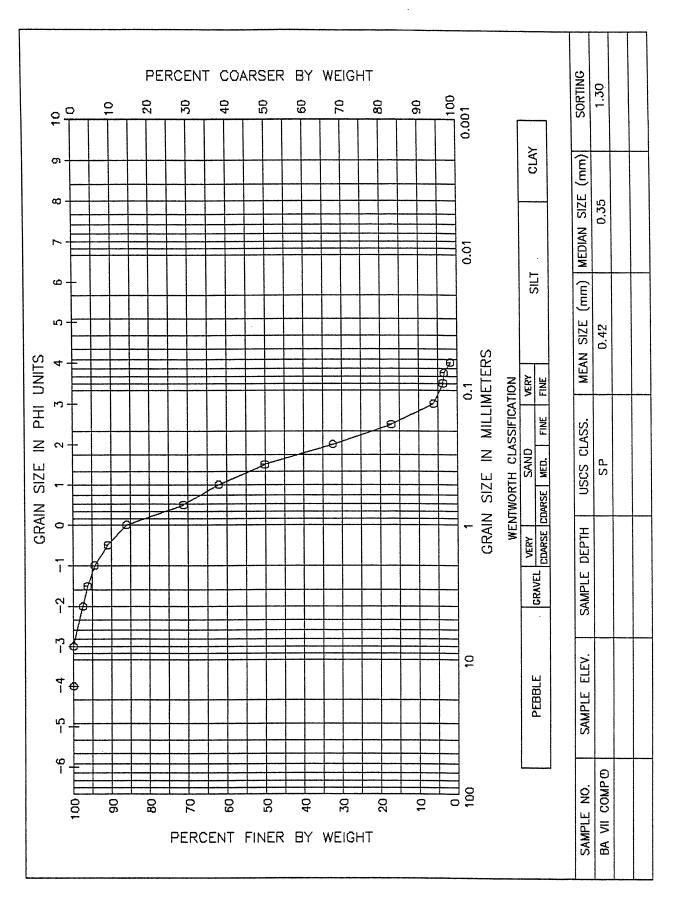
USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 100.00

| SIEVE<br>SIZE                                       | PHI<br>SIZE                                                | MESH SIZE (mm)                                                       | RETAINED<br>(GRAMS)                                                   | RETAINED<br>(%)                                              | PASSED<br>(%)                                                          |
|-----------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|
| 5/8<br>5/16<br>5<br>7<br>10<br>14<br>18<br>25<br>35 | -4.0<br>-3.0<br>-2.0<br>-1.5<br>-1.0<br>-0.5<br>0.0<br>0.5 | 16.000<br>8.000<br>4.000<br>2.800<br>2.000<br>1.400<br>1.000<br>.710 | .00<br>.00<br>2.50<br>3.72<br>5.57<br>9.00<br>13.92<br>28.80<br>37.89 | .00<br>.00<br>2.50<br>3.72<br>5.57<br>9.00<br>13.92<br>28.80 | 100.00<br>100.00<br>97.50<br>96.28<br>94.43<br>91.00<br>86.08<br>71.20 |
| 45<br>60<br>80<br>120<br>170<br>200<br>230<br>PAN   | 1.0<br>1.5<br>2.0<br>2.5<br>3.0<br>3.5<br>3.75<br>4.0      | .355<br>.250<br>.180<br>.125<br>.090<br>.075                         | 49.81<br>67.60<br>82.85<br>93.90<br>96.34<br>96.66<br>98.29<br>99.89  |                                                              | 62.11<br>50.19<br>32.40<br>17.15<br>6.10<br>3.66<br>3.34<br>1.71       |
| PHI(5):<br>PHI(50)<br>PHI(95)                       | : 1.51                                                     |                                                                      | (16): .07<br>(75): 2.24                                               | •                                                            | 5): .37<br>1): 2.55                                                    |
| SIEVE I                                             |                                                            | : .11<br>378                                                         |                                                                       | SILT/CLAY:<br>KURTOSIS:                                      |                                                                        |
|                                                     | HI): 1 m):                                                 | .24<br>.42                                                           |                                                                       | SORTING:<br>MEDIAN (mm):<br>POINT METHO                      | .35                                                                    |
| •                                                   | METHOD<br>PHI): 1                                          |                                                                      |                                                                       | SORTING                                                      | 1.30                                                                   |

DATA FILE NAME: BA\_VII.TAB



GRAIN SIZE DISTRIBUTION CURVE BROWARD CO. VIBRACORES BA VII 10/96



### CUMULATIVE PERCENTS AND DISTRIBUTION FOR 53 SAMPLES FROM BROWARD COUNTY SEPT. / OCT. 1996

| SAMPLE  | l. D. | MEAN<br>(mm) | PHI<br>MEAN | PHI<br>SORTING | %<br>SILT |
|---------|-------|--------------|-------------|----------------|-----------|
| VC96-2  | #1    | 0.20         | 2.35        | 1.05           | 3.27      |
| VC96-2  | #2    | 0.30         | 1.76        | 1.44           | 2.57      |
| VC96-2  | #3    | 0.21         | 2.23        | 1.10           | 3.15      |
| VC96-4  | #1    | 0.24         | 2.07        | 1.23           | 3.15      |
| VC96-4  | #2    | 0.30         | 1.71        | 1.40           | 3.63      |
| VC96-4  | #3    | 0.37         | 1.45        | 1.55           | 6.61      |
| VC96-6  | #1    | 0.32         | 1.67        | 0.81           | 1.28      |
| VC96-7  | #1    | 0.19         | 2.37        | 1.00           | 3.97      |
| VC96-7  | #2    | 0.24         | 2.07        | 1.33           | 3.88      |
| VC96-8  | #1    | 0.31         | 1.69        | 0.89           | 1.99      |
| VC96-8  | #2    | 0.30         | 1.73        | 0.88           | 2.40      |
| VC96-9  | #1    | 0.43         | 1.23        | 1.60           | 2.96      |
| VC96-9  | #2    | 0.42         | 1.26        | 1.59           | 3.43      |
| VC96-9  | #3    | 0.38         | 1.38        | 1.47           | 5.98      |
| VC96-10 | #1    | 0.17         | 2.53        | 0.75           | 2.33      |
| VC96-10 | #2    | 0.25         | 1.97        | 1.36           | 3.67      |
| VC96-11 | #1    | 0.20         | 2.36        | 0.95           | 3.26      |
| VC96-11 | #2    | 0.27         | 1.89        | 1.45           | 3.93      |
| VC96-11 | #3    | 0.23         | 2.10        | 1.00           | 4.50      |
| VC96-18 | #1    | 0.44         | 1.17        | 1.35           | 2.22      |
| VC96-18 | #2    | 0.40         | 1.33        | 1.22           | 2.48      |
| VC96-18 | #3    | 0.26         | 1.93        | 1.40           | 7.72      |
| VC96-20 | #1    | 0.43         | 1.22        | 1.42           | 3.66      |
| VC96-20 | #2    | 0.29         | 1.77        | 1.51           | 9.52      |
| VC96-20 | #3    | 0.21         | 2.24        | 1.36           | 14.53     |
| VC96-21 | #1    | 0.25         | 1.98        | 0.86           | 2.94      |
| VC96-22 | #1    | 0.21         | 2.27        | 1.02           | 4.97      |
| VC96-22 | #2    | 0.24         | 2.05        | 1.13           | 6.34      |

### CUMULATIVE PERCENTS AND DISTRIBUTION FOR 53 SAMPLES FROM BROWARD COUNTY SEPT. / OCT. 1996

| SAMPLE I. D.                                                   |                            | MEAN                                         | PHI                                          | PHI                                          | %                                            |
|----------------------------------------------------------------|----------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
|                                                                |                            | (mm)                                         | MEAN                                         | SORTING                                      | SILT                                         |
| VC96-38                                                        | #1                         | 0.34                                         | 1.55                                         | 0.97                                         | 2.78                                         |
| VC96-38                                                        | #2                         | 0.36                                         | 1.45                                         | 1.21                                         | 2.53                                         |
| VC96-40                                                        | #1                         | 0.38                                         | 1.40                                         | 1.05                                         | 2.25                                         |
| VC96-40                                                        | #2                         | 0.25                                         | 1.98                                         | 0.69                                         | 1.84                                         |
| VC96-41                                                        | #1                         | 0.25                                         | 1.99                                         | 0.69                                         | 1.38                                         |
| VC96-56                                                        | #1                         | 0.23                                         | 2.13                                         | 0.98                                         | 2.09                                         |
| VC96-57                                                        | #1                         | 0.23                                         | 2.13                                         | 0.88                                         | 1.74                                         |
| VC96-57                                                        | #2                         | 0.31                                         | 1.69                                         | 1.29                                         | 1.81                                         |
| VC96-58                                                        | #1                         | 0.45                                         | 1.14                                         | 0.96                                         | 1.66                                         |
| VC96-62<br>VC96-62<br>VC96-62<br>VC96-62<br>VC96-62<br>VC96-62 | #1<br>#2<br>#3<br>#4<br>#5 | 0.46<br>0.37<br>0.50<br>0.24<br>0.23<br>0.23 | 1.12<br>1.42<br>0.99<br>2.04<br>2.13<br>2.10 | 1.04<br>1.04<br>1.38<br>1.28<br>1.25<br>1.25 | 2.86<br>3.55<br>4.42<br>7.26<br>7.40<br>7.25 |
| VC96-68                                                        | #1                         | 0.19                                         | 2.38                                         | 0.90                                         | 9.68                                         |
| VC96-68                                                        | #2                         | 0.29                                         | 1.81                                         | 1.19                                         | 6.02                                         |
| VC96-68                                                        | #3                         | 0.44                                         | 1.20                                         | 1.57                                         | 5.16                                         |
| VC96-69                                                        | #1                         | 0.25                                         | 1.97                                         | 1.00                                         | 4.52                                         |
| VC96-69                                                        | #2                         | 0.67                                         | 0.58                                         | 1.82                                         | 6.97                                         |
| VC96-72                                                        | #1                         | 0.62                                         | 0.68                                         | 1.16                                         | 3.27                                         |
| VC96-72                                                        | #2                         | 0.39                                         | 1.36                                         | 1.54                                         | 7.06                                         |
| VC96-72                                                        | #3                         | 0.48                                         | 1.06                                         | 1.69                                         | 12.83                                        |

MOMENT METHOD